THE TEXAS COMPANY
MONTEBELLO SYNTHESIS UNIT
SUMMARY OF PRELIMINARY DATA

RUN NUMBER	18F	18G	18H	19A	19B	19C	19D	21A	21B
Start	6/9	6/10	6/11	6/30	7/1	7/2	7/3	7/8	7/9
End	6/10	6/11	6/11 (5hrs)	7/1 (26hrs)	7/2 (8hrs)	7/3	7/4	7/9 (13hrs)	7/10
GENERATOR DATA									
Pressure - psig	209	205	205	213	210	210	210	310	315
Gas Rate - SCFH	2510	2505	2500	2240	2325	2280	2245	2260	2250
Oxygen Rate - SCFH	1820	1830	1830	1670	1710	1780	1777	1750	1750
Product Rate - SCFH	7610	7650	7400	6410	6450	6710	6750	7000	6500
Product Composition									
*CEO **MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS
CO CO	35.1-	35.1-	34.7-	34.6-	32.8-	35.3-34.0	35.6-36.5	34.9-	35.4-34.7
H_2 H_2	59.8-	60.1-	59.2-	57.4-	56.4-	57.8-61.6	59.1-58.9	58.0-	57.9-55.6
CO_2 CO_2	1.7-	1.7-	1.6-	2.3-	2.4-	2.0- 1.9	1.9- 1.7	2.0-	2.1- 2.0
N_2 N_2	0.6-	0.6-	0.2-	0.7-	0.3-	1.5- 0.8	1.0- 1.3	1.2-	0.5- 3.0
CH_4 CH_4	2.8-	2.5-	4.3-	5.0-	8.1-	3.4- 1.7	2.4- 1.6	3.9-	4.1- 4.7
SYNTHESIS DATA									
Pressure - psig	200	200	200	200	200	200	200	200	200
Recycle Rate - SCFH	11580	11540	10120	9240	9540	9410	9268	10100	8640
Fresh Feed - SCFH	7610	7650	7400	6410	6450	6710	6750	7000	6500
Wet Gas Rate - SCFH	4500	3920	3860	2820	3000	3360	3230	2830	3430
Catalyst Temperature - °F	647	685	655	660	665	641	657	675	635
Catalyst Density - #/cu ft	(70)	(112)	(90)	119	95	91		115	117
Catalyst Fluidized - #	(200)	(170)	(165)	473	324	174	79.5	316	307
Depth of Catalyst Bed - ft				8.5	6.8	3.5	(3.6)	5.4	5.0
Fresh Feed - SCFH/#Cat	26.0	45		14.8	19.9	38.5	85	22.1	21.1
Inlet Velocity - ft/sec	1.7	1.8	1.6	1.4	1.5	1.4	1.4	1.2	0.9
Recycle Ratio	1.5	1.5	1.3	1.4	1.4	1.4	1.3	1.4	1.3
Contraction - %	40.9	48.8	46.3	56	53.5	50.0	52.2	59.6	47.2
Measured Oil - gph	2.1	3.2	4.5	3.4	3.0	3.0	2.7	3.8	2.9
Measured Water - gph	3.7	5.1	6.9	6.5	7.7	4.7	4.9	7.6	3.3
Steam Pressure - psig	610	900	750	880	880	700	500	610	450
Steam Rate - #/hr	101	71							117
% CO_2 in Wet Gas by Orsat	13.5	16.1	23.0	22.8	21.6	20.3	19.5	24.7	20.2
Weight Balance - %	101	103	111	101	108	100	100.2	98.5	95
WET GAS COMPOSITION BY ** MS									
CO	19.09	5.27	11.19	6.47	9.15	17.30	9.16	6.39	14.06
H_2	55.25	45.49	57.05	34.49	44.47	52.20	58.25	30.87	48.42
CO_2	14.00	.38	19.10	21.30	22.71	15.29	10.52	16.04	14.77
N_2	1.27	30.11	1.88	14.07	.60	2.04	5.15	18.47	2.54
CH_4	6.34	7.98	6.78	12.53	14.92	6.82	10.57	16.91	13.83
C_2H_4	.97	.79	.97	2.41	2.65	1.95	2.17	1.30	1.28
C_2H_6	.45	.67	.34	.82	.82	.71	.93	1.39	.80
C_3H_6	.59	.78	.89	1.38	.98	1.33	1.32	1.69	1.51
C_3H_8	.11	.46	.14	.41	.35	.56	.57	.78	.68
C_4H_8	.69	.57	.69	1.31	1.51	.94	.73	1.13	1.06
C_4H_{10}	.33		.12	.33	.35		.12		.14
C_5H_{10}	.51	.31	.42	.72	.91	.53	.39	.48	.57
C_5H_{12}	.08			.17	.28				
C_6H_{12}	.25		.14	.27	.28	.21	.17		.17

* CEO - CORRECTED EXPLOSION ORSAT
** MS - MASS SPECTROMETER