THE TEXAS COMPANY
MONTEBELLO SYNTHESIS UNIT
SUMMARY OF PRELIMINARY DATA

RUN NUMBER	17J	17K	17L	17M	18A	18B	18C	18D	18E
Start	5/16	5/17	5/18	5/19	6/4	6/5	6/6	6/7	6/8
End	5/17	5/18	5/19	5/20	6/5 (15 hrs)	6/6	6/7	6/8	6/9
GENERATOR DATA									
Pressure - psig	218	215	218	218	210	210	210	205	207
Gas Rate - SCFH	2440	2440	2445	2470	2465	2420	2445	2440	2480
Oxygen Rate - SCFH	1830	1783	1780	1800	1825	1810	1793	1785	1810
Product Rate - SCFH	7320	7430	7550	7490	7060	6950	6920	7510	7610
Product Composition									
*CEO / **MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS	CEO MS
CO / CO	34.8-	35.3-	34.0-	34.7-	35.0-	35.3-	34.1-	34.2-	34.9-
H_2 / H_2	59.0-	59.2-	59.1-	59.0-	59.7-	59.0-	59.2-	60.1-	59.5-
CO_2 / CO_2	2.0-	2.0-	2.1-	1.9-	2.1-	1.9-	1.9-	1.7-	1.8-
N_2 / N_2	1.0-	1.4-	2.0-	1.4	0.0-	1.0-	0.7-	0.9-	1.4-
CH_4 / CH_4	3.2-	2.0-	2.8-	3.0-	3.2-	2.8-	4.1-	3.1-	2.4-
SYNTHESIS DATA									
Pressure - psig	200	200	200	200	200	200	200	200	200
Recycle Rate - SCFH	11400	10960	11290	12070	12200	12400	12450	12490	12130
Fresh Feed - SCFH	7320	7430	7550	7490	7340	7250	7325	7510	7610
Wet Gas Rate - SCFH	3130	3170	3100	3530	3930	4320	4500	4330	4280
Catalyst Temperature - °F	622	621	625	621	616	600	610	620	619
Catalyst Density - #/cu ft	66	60	48	40	89.6	(30)	(30)	(40)	(50)
Catalyst Fluidized - #	213	197	223	192	218.6	(60)	(60)	(100)	(200)
Depth of Catalyst Bed - ft	5.3	5.5	9.5	9.0					
Fresh Feed - SCFH/#Cat	34.4	37.7	33.8	39.0	30.4	30.5	31	32.5	25.4
Inlet Velocity - ft/sec	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.7
Recycle Ratio	1.6	1.5	1.5	1.6	1.7	1.7	1.7	1.7	1.6
Contraction - %	57.3	57.4	59.0	53	46	40.4	38.5	42.4	43.8
Measured Oil - gph	3.3	3.6	3.4	2.6	1.5	1.6	2.7	2.3	2.3
Measured Water - gph	6.0	5.8	5.6	4.9	7.9	4.0	3.9	3.9	3.7
Steam Pressure - psig	900	900	750	650	880	900	870	840	800
Steam Rate - #/hr	240	235	238	228					
% CO_2 in Wet Gas by Orsat	21.2	21.3	21.2	19.5	14.9	14.4	14.5	15.1	14.9
Weight Balance - %	95	95	91	91	107	101	105	103	99.3
WET GAS COMPOSITION BY ** MS									
CO	9.07	15.22	11.80	14.80		20.06	16.64	17.69	18.10
H_2	49.85	50.42	48.15	52.84		53.49	43.81	56.82	35.41
CO_2	24.65	17.67	22.44	18.26		13.01	10.17	14.27	11.45
N_2	.26	3.32	3.99	3.57		1.52	12.23	1.25	21.61
CH_4	7.14	6.85	6.49	6.11		6.35	5.54	5.73	4.67
C_2H_4	2.21	1.49	1.89	1.40		2.36	.67	.97	.78
C_2H_6	.75	.64	.62	.57		1.13	.41	.18	.25
C_3H_6	2.07	1.18	1.36	.89		.63	.35	.45	.35
C_3H_8	1.68	.78	.33	.12		.11	.31	.88	.44
C_4H_8	1.05	1.19	1.19	.03		.56	.77	.62	.34
C_4H_{10}	.32	.20	.27	.21		.18	.21	.19	.23
C_5H_{10}	.77	.54	.95	.54		.42	.52	.43	.41
C_5H_{12}				.36				.08	.04
C_6H_{12}	.25	.16	.16	.30		.18	.16	.18	.17

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