

MONTEBELLO SYNTHESIS UNIT
SUMMARY OF PRELIMINARY DATA

RUN NUMBER	15F	15G	15H	15I	15J
Start	4/12	4/13	4/14	4/15	4/16
End	4/13	4/14	4/15	4/16	4/16
GENERATOR DATA					
Gas Rate-scfh	2510	2560	2540	2550	2560
Oxygen Rate-scfh	1960	1860	1845	1870	1835
Product Rate-scfh	7700	8050	7550	7620	7970
Product Composition by Corrected Explosion Orsat- mol %					
CO	34.1	34.6	35.2	35.6	35.6
H2	58.9	59.4	58.3	58.4	58.4
CO2	2.1	2.2	2.2	2.2	2.1
N2	2.0	3.0	2.0	2.1	2.1
CH4	2.9	1.4	2.9	2.4	2.4
SYNTHESIS DATA					
Pressure-psig	200	200	200	200	200
Recycle Rate-scfh	12085	12360	12230	12180	12790
Fresh Feed Rate-scfh	7700	8050	7550	7620	7970
Wet Gas Rate-scfh	2830	2625	3160	3040	3340
Catalyst Temperature F.	628	620	635	635	640
Catalyst Density-#/cu.ft.	17	14	10	5	3.5
Cat. Fluidized-#	139	116	102	79	65
Depth of Bed-ft.	19	21	23	30	
Fresh Feed-cfh/# cat.	55	69	74	96	122
Inlet Velocity-ft./sec.	1.9	1.8	1.8	1.8	1.8
Recycle Ratio	1.6	1.5	1.6	1.6	1.6
Contraction-%	63.3	67.5	58.1	60.1	58.2
Measured Oil-gph	3.2	4.3	3.5	3.1	4.3
Measured Water-gph	6.7	5.5	3.9	3.1	4.3
Steam Pressure-psig	925	925	925	925	925
Steam Rate-#/hr. (1)	275	207	264	284	242
YIELDS ESTIMATED FROM CORRELATION					
CO Conversion-%	92.7	94.4	90.2	91.2	90.3
H2 Conversion-%	71.1	75.7	65.2	67.5	65.5
Ultimate Oil Yield					
bbl./MMCF Gen. Feed	102	109	90	97	93
Cumulative Ultimate Oil					
bbl./MMCF Gen. Feed	116	115	111	110	109
gal./# Cat. Charged	6.6	7.6	8.5	9.4	9.7

(1) Sight average from badly pulsating chart

