

STRATFORD ENGINEERING CORPORATION

COMPANY

JOB NO. J-1814

SHEET NO. 5 BY

SUBJECT ENTRAINMENT CARRYOVER TESTS AT MONTEPELLO, CAL

DATE

TEST NO	9	10	11	12	13	
DATE (1947)	3/10	3/10	3/10	3/10	3/11	
R.P.M. SHAFT SPEED	1000	1000	1000	1000	1000	
CONTACTOR PRESS. *G	28	16	16	16	16	
FLOW RATES - STD. C.F.M.						
TOTAL FEED	416.6	✓	✓	✓	✓	
TOP LABYRINTH	15.3	✓	✓	✓	✓	
MIDDLE BEARING	15.3	✓	✓	✓	✓	
BOTTOM LABYRINTH	31.0	✓	✓	✓	✓	
SHAFT FEED	31.3	✓	✓	✓	✓	
BOTTOM SWEEP	108.3	✓	✓	✓	✓	
ANNULAR RING (BY DIFF.)	215.4	✓	✓	✓	✓	
TOTAL TO CENTER	170.9	✓	✓	✓	✓	
TOTAL TO ANNULUS	215.4	✓	✓	✓	✓	
TOTAL TO WHEEL	401.3	✓	✓	✓	✓	
FLOW RATES - ACTUAL C.F.M.						
TOTAL TO CENTER	58.8	81.5	81.5	81.5	81.5	
TOTAL TO ANNULUS	74.2	103.0	103.0	103.0	103.0	
TOTAL TO WHEEL	138.0	192.0	192.0	192.0	192.0	
VELOCITIES - SUPERFICIAL						
CENTER TUBE FT./SEC.	3.01	4.18	4.18	4.18	4.18	
ANNULUS	2.93	4.06	4.06	4.06	4.06	
DILUTE PHASE	2.09	2.90	2.90	2.90	2.90	
IN SEPARATOR WHEEL	3.15	4.40	4.40	4.40	4.40	
TEST PERIOD - MINUTES	120	181	240	360	490	
TOTAL GAS RUN - CU.FT.	16560	34750	46080	69120	94080	
BAG WEIGHT FINAL, LBS.-OZ.	6-13	8-1 $\frac{1}{2}$	9-8 $\frac{1}{4}$	9-15	8-7 $\frac{1}{2}$	
BAG WT. AT START	6-7	6-6	6-12 $\frac{1}{2}$	6-6 $\frac{1}{2}$	6-10	
DIFF. WEIGHT, LBS.-OZ.	0-6	1-11 $\frac{1}{2}$	2-11 $\frac{3}{4}$	3-8 $\frac{3}{4}$	1-13 $\frac{1}{2}$	
CARRYOVER, GRAINS/CU.FT.	0.158	0.347	0.415	0.359	0.137	
FINES DENSITY - AERATED		56.0	60.0	55.2	52.5	
" " SETTLED		59.5	61.8	58.0	53.8	
" " PACKED		105.0	106.2	104.0	103.5	
RESIDUE DENSITY - AERATED		140.5		141.0	142.0	
" " SETTLED		144.0		146.5	146.0	
" " PACKED		175.0		173.0	162.0	
CATALYST INVENTORY AT START	394.84	394.47	397.75	389.01	385.46	383.62
CUMULATIVE OVER - WT %	7.42	7.82	8.45	9.30	9.74	

