STRATFORD ENGINEERING CORPORATION

COMPANY

JOB NO. J-1814

SUBJECT ENTRAINMENT CARRYOVER TESTS AT MONTEBELLO, CAL.

SHEET NO. 2 BY

DATE

TEST NO	A	B	C	D	E	1	2	3	4	5	6	7	8
DATE (1947)	3/7	3/7	3/7	3/7	3/7	3/8	3/8	3/8	3/8	3/8	3/8	3/9	3/9
TOTAL FLOW "H_2O	29.5	✓	36.0	✓	✓	36.0	✓	✓	✓	✓	✓	✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	299.1		299.1			299.1							
DWNSTREAM PRESS #G	235	✓	178	✓	✓	178	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. UPSTREAM	15.4		13.9			13.9							
FLOW STD. C.F./HR	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000
TOP LABYRINTH "H_2O	15.0	✓	19.0			19.0	✓	✓	✓			✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	15.6		15.6			15.6							
UPSTREAM PRESS #G	220	✓	168	✓	✓	168	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. DOWNSTREAM	15.3		13.5			13.5							
FLOW STD. C.F./HR	923	923	920	920	920	920	920	920	920	920	920	920	920
MIDDLE BEARING "H_2O	15.0	✓	19.0	✓	✓	19.0	✓	✓	✓	✓	✓	✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	15.6		15.6			15.6							
UPSTREAM PRESS #G	220	✓	168	✓	✓	168	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. DOWNSTREAM	15.3		13.5			13.5							
FLOW STD. C.F./HR	923	923	920	920	920	920	920	920	920	920	920	920	920
BOTTOM LABYRINTH "H_2O	10.8	✓	14.0	✓	✓	14.0	✓	✓	✓	✓	✓	✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	36.8		36.8			36.8							
UPSTREAM PRESS #G	220	✓	168	✓	✓	168	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. UPSTREAM	15.3		13.53			13.53							
FLOW STD. C.F./HR	1855	1855	1860	1860	1860	1860	1860	1860	1860	1860	1860	1860	1860
SHAFT FEED "H_2O	11.8	✓	15.5	✓	✓	15.5	✓	✓	✓	✓	✓	✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	35.1		35.1			35.1							
UPSTREAM PRESS #G	220	✓	168	✓	✓	168	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. DOWNSTREAM	15.3		13.50			13.5							
FLOW STD C.F./HR	1845	1845	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875
BOTTOM SWEEP "H_2O	16.2	✓	21.5	✓	✓	21.5	✓	✓	✓	✓	✓	✓	✓
COEF $\times\sqrt{\frac{I}{G}}$	103.7		103.7			103.7							
UPSTREAM PRESS #G	220	✓	168	✓	✓	168	✓	✓	✓	✓	✓	✓	✓
$\sqrt{P}$ abs. UPSTREAM	15.3		13.53			13.53							
FLOW STD. C.F./HR	6380	6380	6500	6500	6500	6500	6500	6500	6500	6500	6500	6500	6500
ANNULAR RING (BY DIFF.) C.F./H.	13074	13074	12925	12925	12925	12925	12925	12925	12925	12925	12925	12925	12925

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STRATFORD ENGINEERING CORPORATION

COMPANY

JOB NO. J-1814

SHEET NO. 3 BY

SUBJECT ENTRAINMENT CARRYOVER TESTS AT MONTEBELLO, CAL

DATE

TEST No	9	10	11	12	13	14	15	16	17	18
DATE (1943)	3/10	3/10	3/10	3/10	3/11					
TOTAL FLOW "H_2O	36	″	″	″	″					
COEF. x $\sqrt{\frac{I}{G}}$	299.1									
DOWNSTREAM PRESS #G	178	″	″	″	″					
$\sqrt{P}$ abs UPSTREAM	139									
FLOW - STD CU.FT/HR	25000	25000	25000	25000	25000					
TOP LABYRINTH "H_2O	19.0	″	″	″	″					
COEF. x $\sqrt{\frac{I}{G}}$	15.6									
UPSTREAM PRESS #G	168.0	″	″	″	″					
$\sqrt{P}$ abs. DOWNSTREAM	13.5									
FLOW - STD CU.FT./HR	920	920	920	920	920					
MIDDLE BEARING "H_2O	19.0	″	″	″	″					
COEF. x $\sqrt{\frac{I}{G}}$	15.6									
UPSTREAM PRESS #G	168.0	″	″	″	″					
$\sqrt{P}$ abs. DOWNSTREAM	13.5									
FLOW - STD. CU.FT./HR	920	920	920	920	920					
BOTTOM LABYRINTH "H_2O ,	14.0	″	″	″	″					
COEF x $\sqrt{\frac{I}{G}}$	36.8									
UPSTREAM PRESS. #G	168.0	″	″	″	″					
$\sqrt{P}$ abs UPSTREAM	13.53									
FLOW - STD. CU.FT./HR	1860	1860	1860	1860	1860					
SHAFT FEED "H_2O	15.5	″	″	″	″					
COEF. x $\sqrt{\frac{I}{G}}$	35.1									
UPSTREAM PRESS #G	168.0	″	″	″	″					
$\sqrt{P}$ abs. DOWNSTREAM	13.50									
FLOW - STD. CU.FT./HR.	1875	1875	1875	1875	1875					
BOTTOM SWEEP "H_2O	21.5	″	″	″	″					
COEF. x $\sqrt{\frac{I}{G}}$	103.7									
UPSTREAM PRESS. #G	168.0	″	″	″	″					
$\sqrt{P}$ abs. UPSTREAM	13.53									
FLOW - STD CU.FT/HR	6500	6500	6500	6500	6500					
NULAR RING (BY DIFF.) C.F./HR	12925	12925	12925	12925	12925					

FORM 35