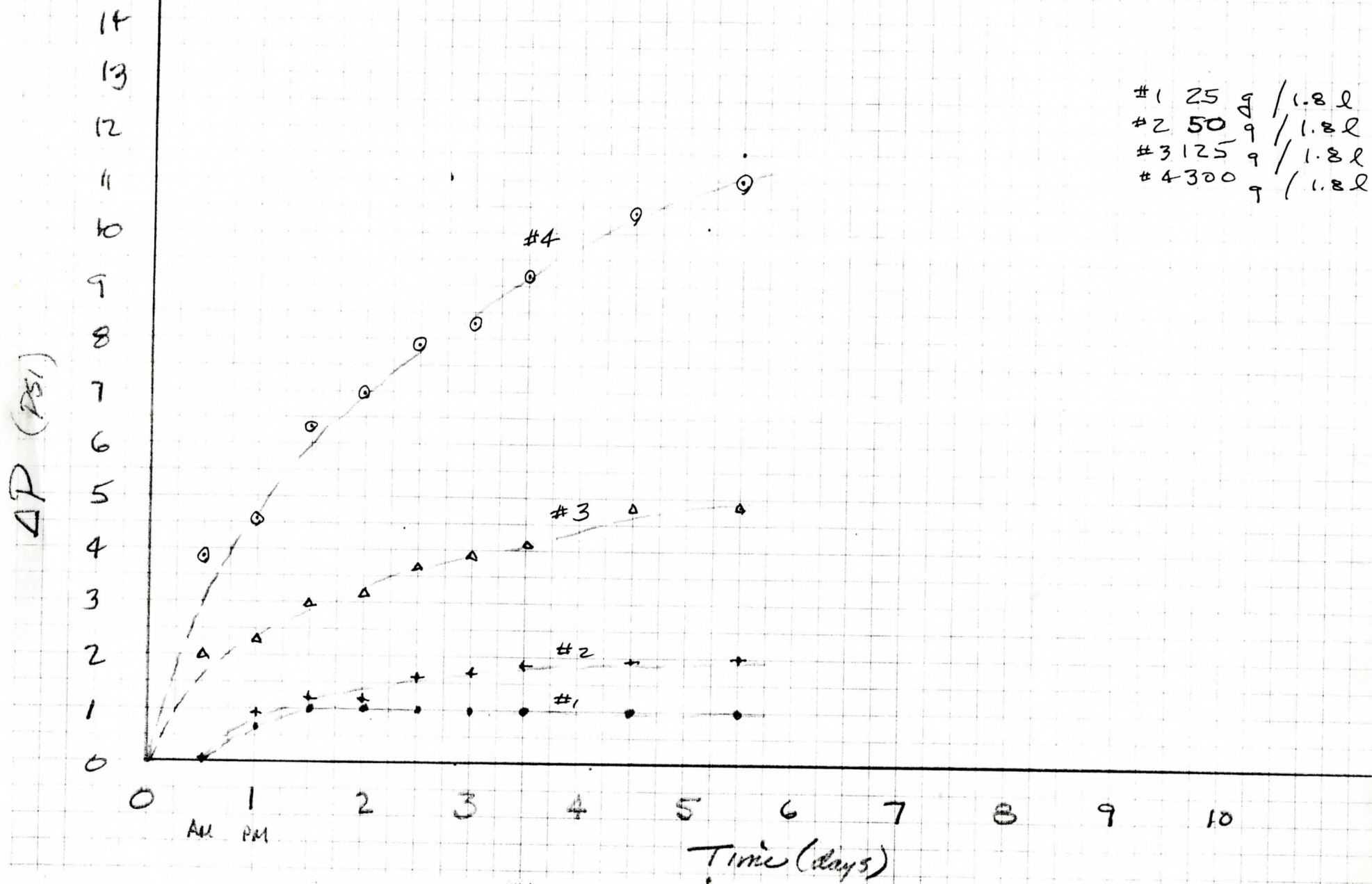


FECES AUTO PRESSURIZATION



Dr. Thornton -

Here is the data for the flat plate tests we did on the second and third days of KC-135 flights. If this does not make sense, please let me know.

Richard Honaker
X 2541

Day 2

Flat plate with single hole

Run #	CFM
1	13
2	7.5
3	7.8
4	7.0
5	8.0
6	10.4
7	7.0

the next two runs were at 1-G

1	14.0
2	12.8

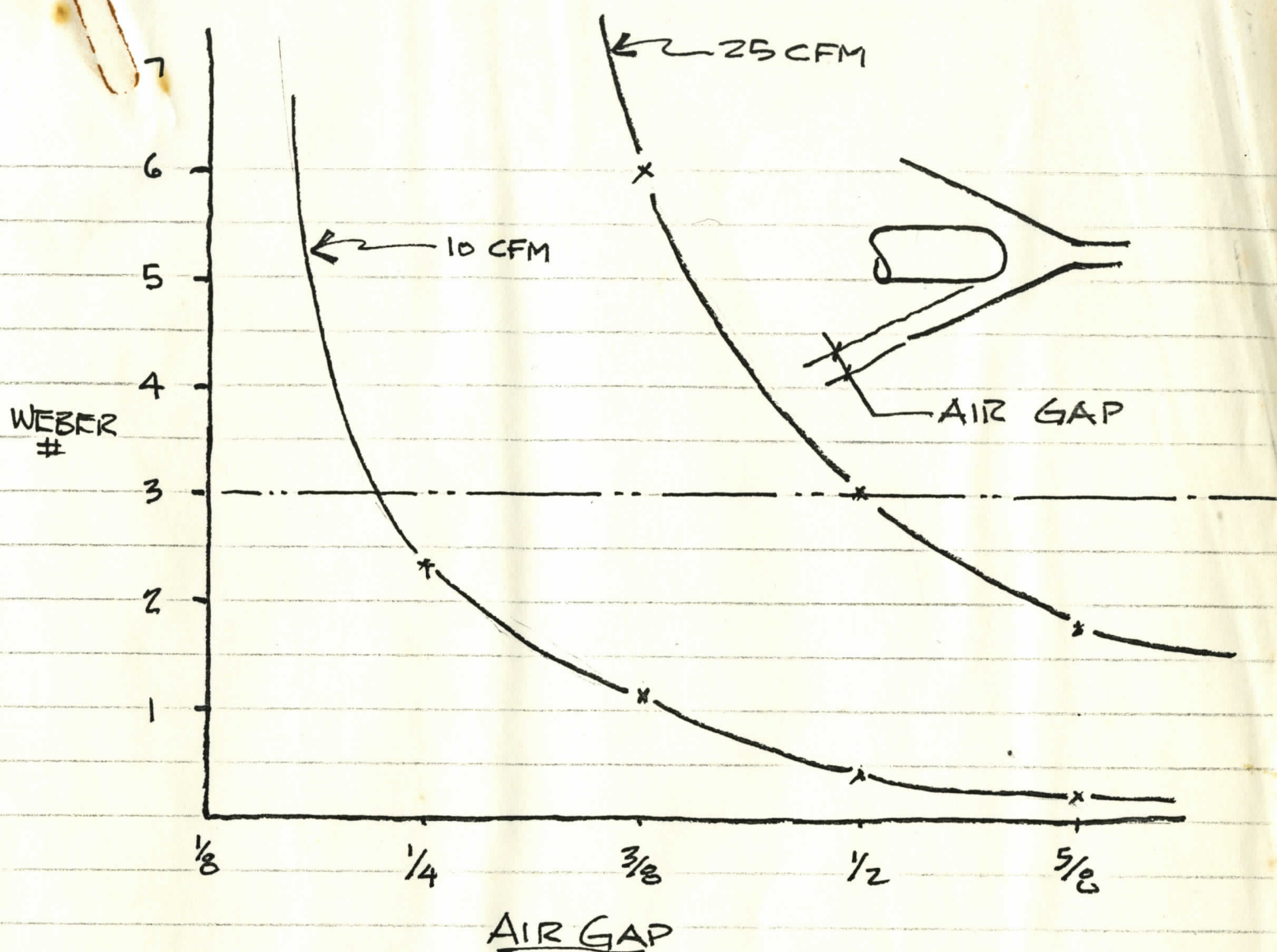
Day 3

Flat plate with multiple holes

1	8.3
2	9.1
3	9.4
4	7.5
5	8.7

the next run was at 1-G

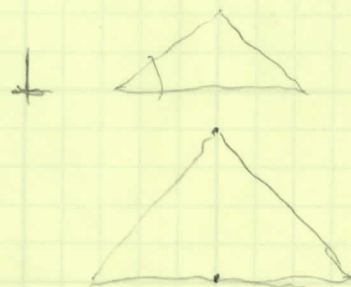
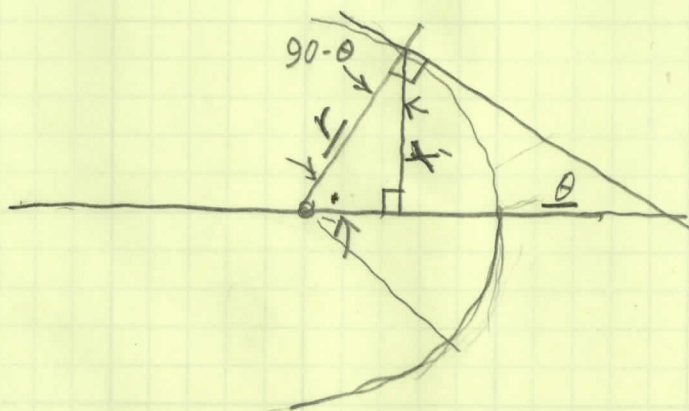
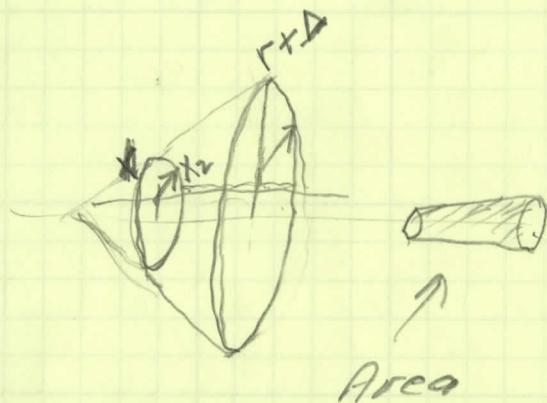
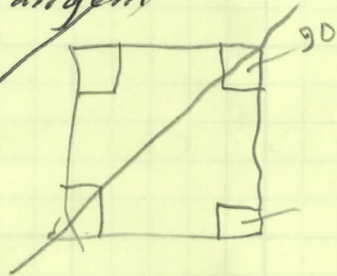
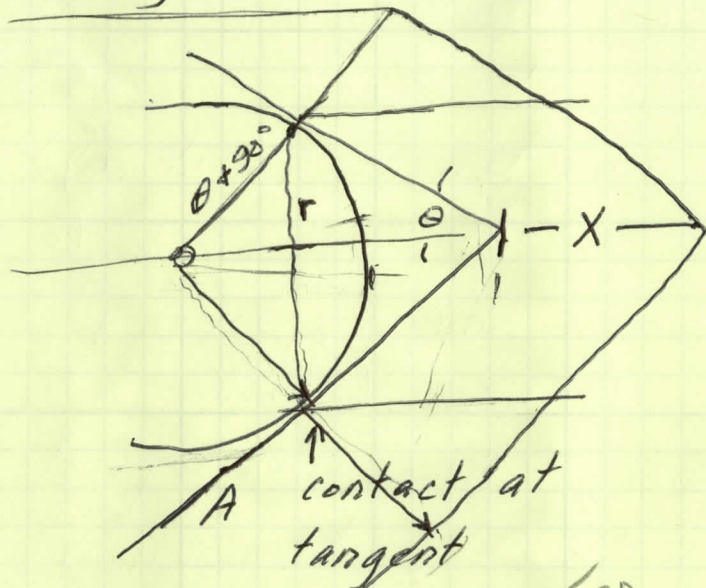
1	13.5
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AIR GAP	ANGLE	AREA	EQUIV. DIA.	WEBER NUMBER	
				10 CFM	25 CFM
1/8	10	.44	.74	↑	↑
1/4	10	.97	1.11	2.3	12
3/8	10	1.60	1.43	1.1	6
1/2	10	2.32	1.72	0.4	3
5/8	10	3.14	2.00	.25	1.8
1/8	20	.42	.73	SAME	
1/4	20	.92	1.18		
3/8	20	1.52	1.39		
1/2	20	2.21	1.68		
5/8	20	3.00	1.95		

Problem -

Determine area of annulus between a ^{sphere} ~~circular~~ and a cone if the cone makes contact and is then moved ^{to maintain} a fixed distance, x , along a radial



Σ