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Photographic observations of this case are to be made in order to study shock arrival times and general behavior.

This is a simplified version of a previously proposed experiment in that no attempt will be made to mock-up radiation flow or hydrodynamics.

It is proposed to discuss this further after Ogle returns to the Hill.

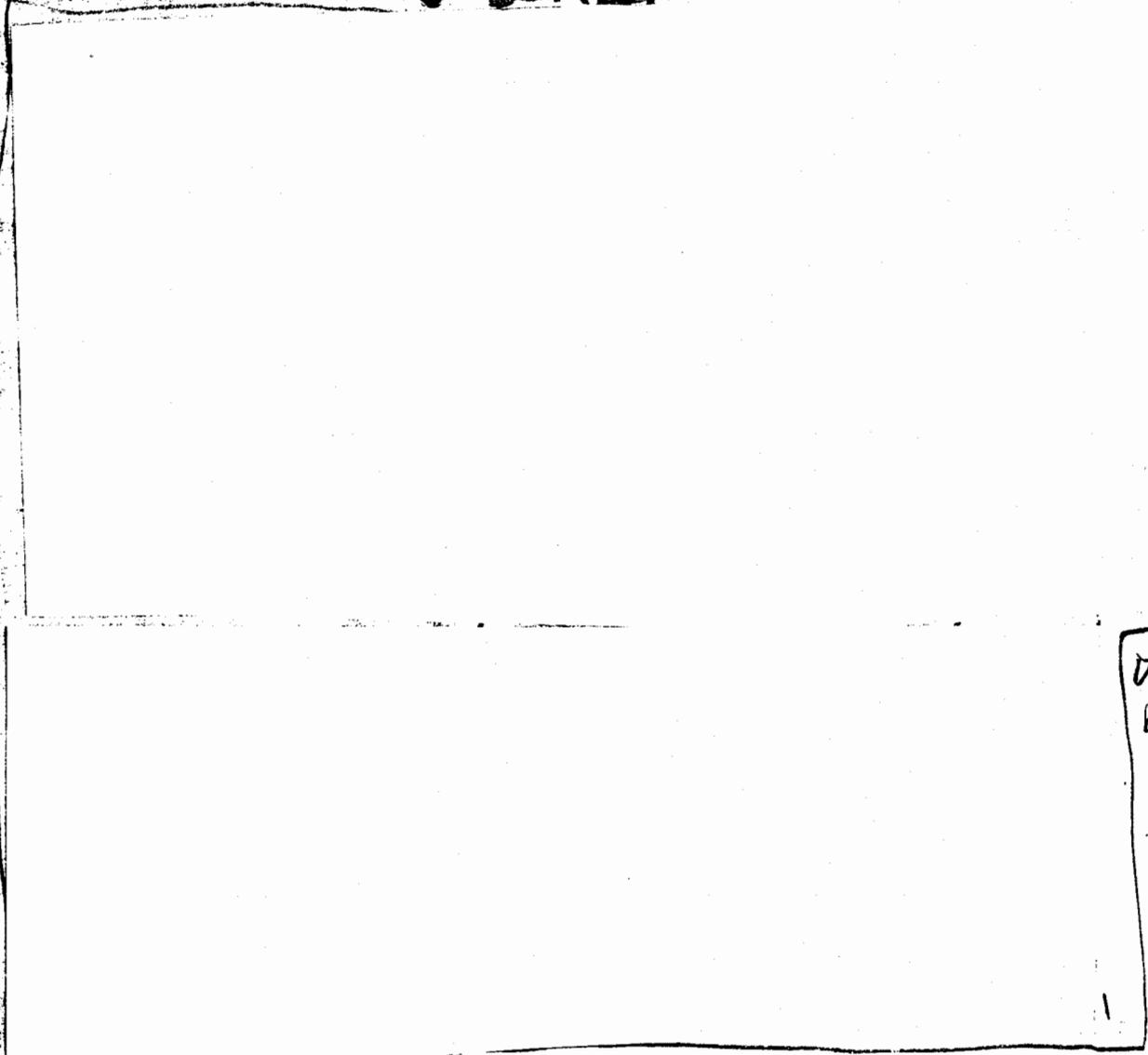
5.



DO. b(3)

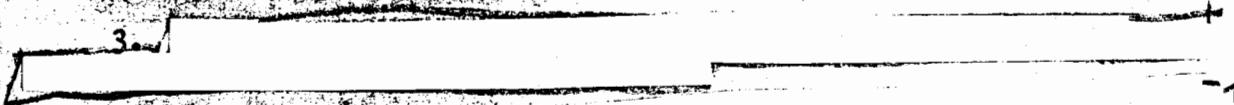
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SECRET-1

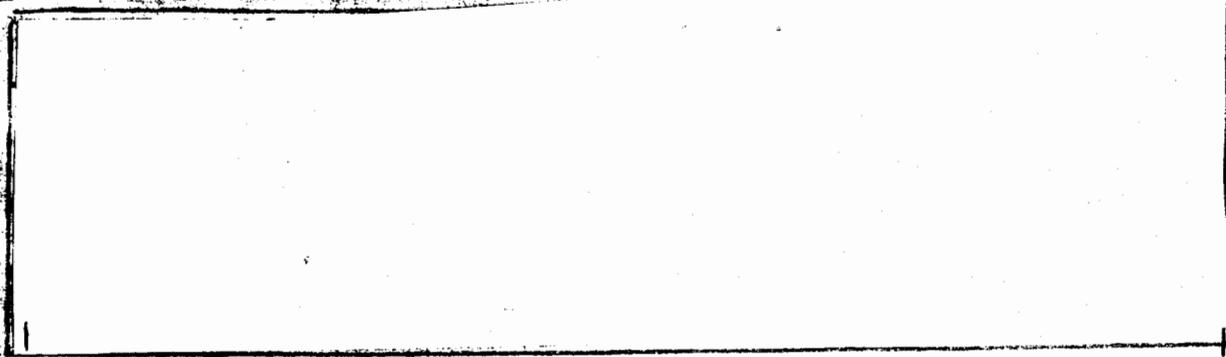


DOE
b(3)

It is proposed to put in the temperature effect as a perturbation.



DOE
b(3)

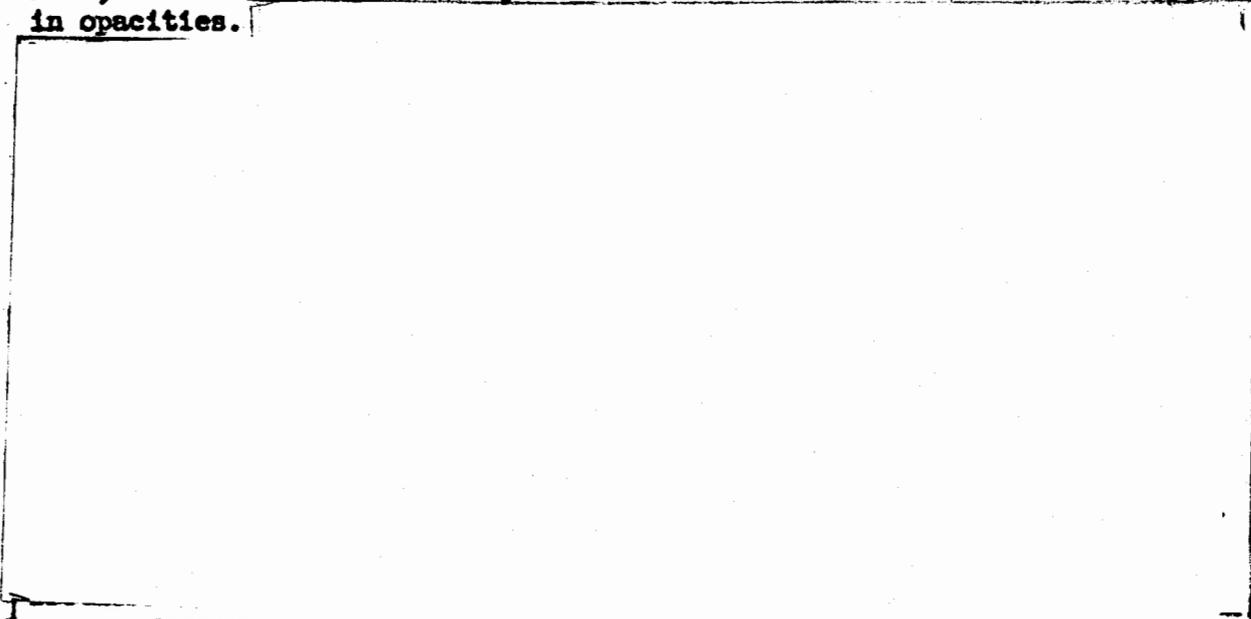


DOE
b(3)

The density is assumed to be constant in each of the four regions; the average temperature and pressure is obtained from the energy which very soon becomes constant.

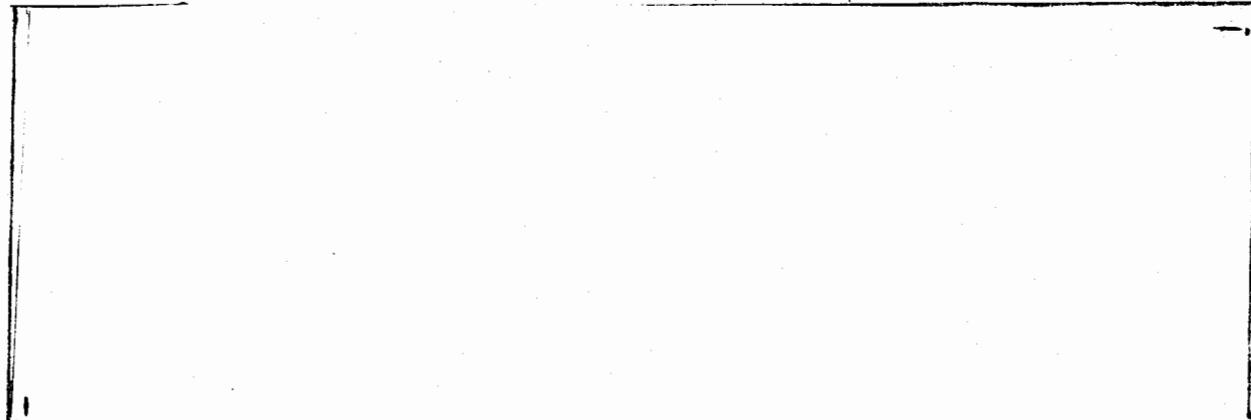
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In the third stage, which occurs after the radiation wave hits the H.E., there is a discontinuity in the derivatives because of the difference in opacities.



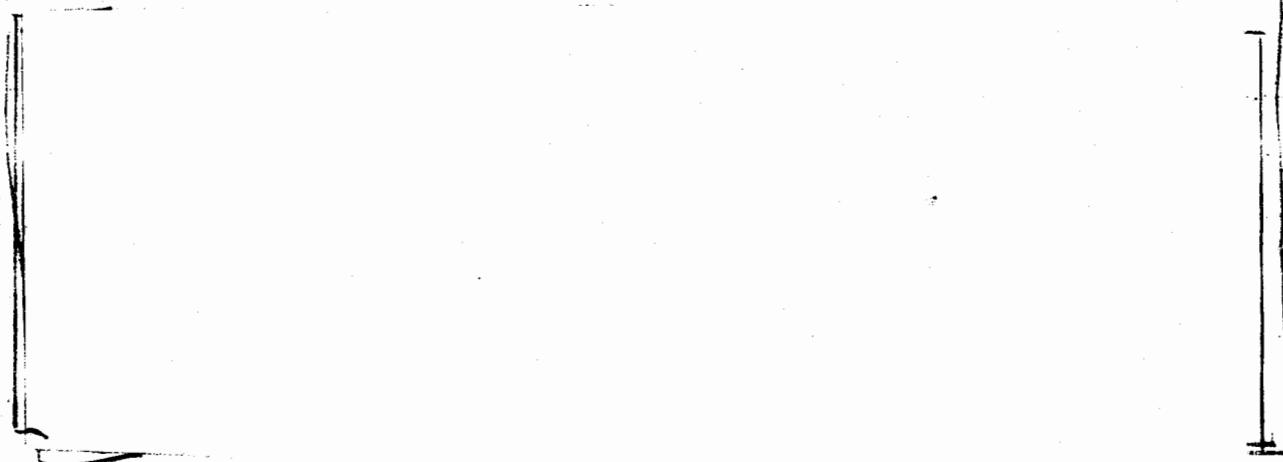
DOE
b(2)

4. Hoyt reported on the status of calculations which are being carried out by him and Carson on radiation penetration effects.



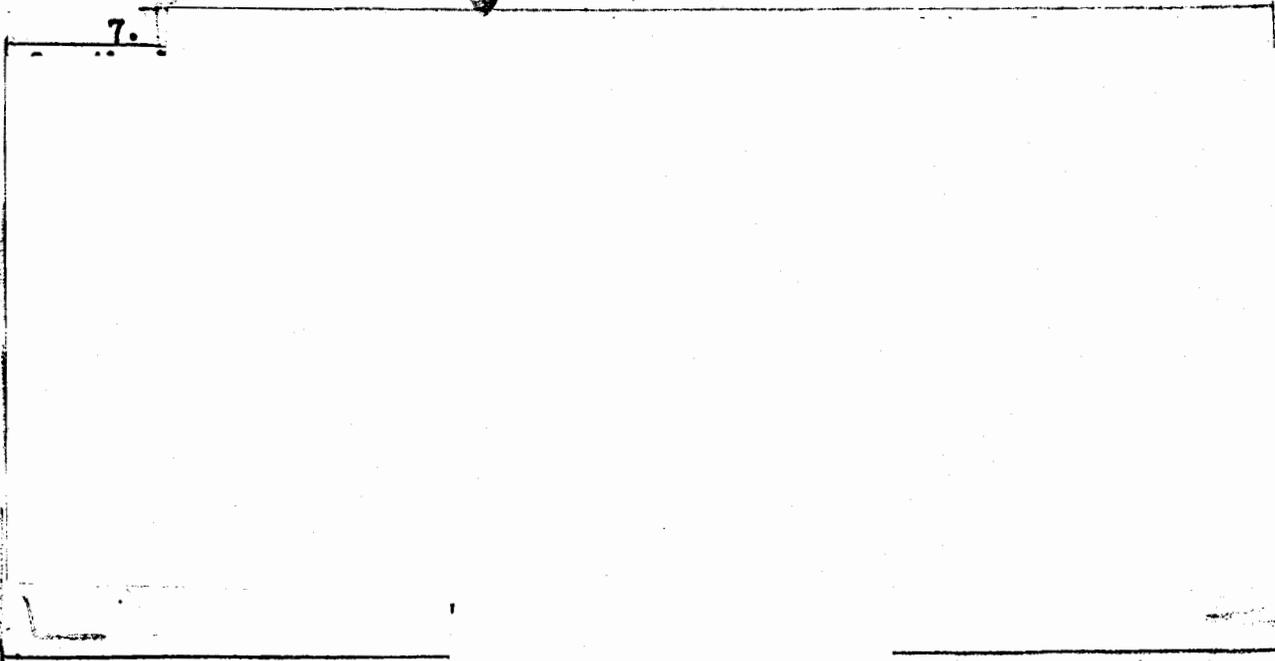
DOE
b(2)

The following figures were supplied by Carson.



DOE
b(2)

7.

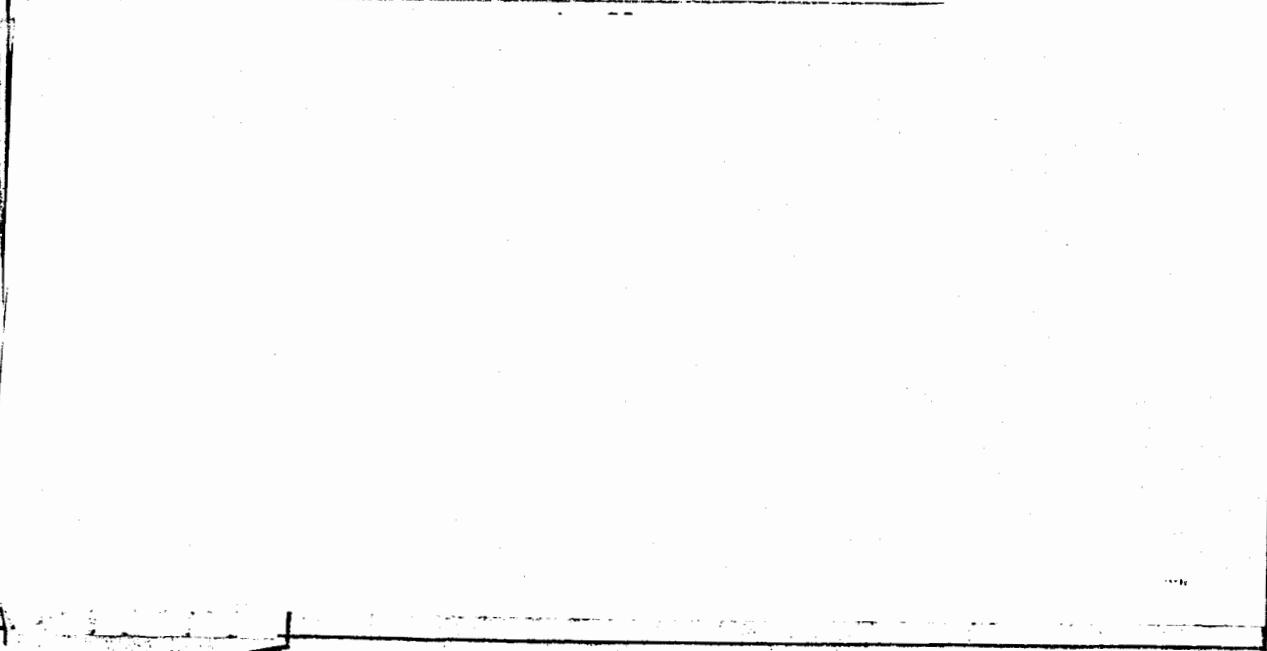


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Roughly the α vs. time curve will be as illustrated. At high compressions the simple infinite medium theory should give reliable values of alpha; this will be the case over the most important part of the curve, say 20 generations worth. Over the earlier part the calculations will be more difficult.

Do
b(1)

The results of the simple infinite medium theory, modified for leakage from a fundamental mode, are as follows:



DD E
b(3)

