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Having decided that a large yield was intrinsically desirable, discussion turned to the desirable thickness of WR. 1

The group then turned to a more detailed examination of this model.

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[Redacted]

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Jette assured the group that this could be done without any essential change of procedure for the present initiators and would present no complications.

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[Redacted]

E. New York Hippo Calculations.

Teller reported on his trip to New York. At present the results obtained in New York seemed close to those obtained by hand calculations at Los Alamos. It is estimated that the calculations will be finished within three or four weeks and that by the middle of May the gun calculations can be put on the IBM machine in New York, ready by the middle of June.

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[Redacted]

F.

MacDougall suggested that it would be advisable at an early date to begin to worry about allocation of responsibilities for the detailed design of this space.

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[Redacted]

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In order to do this most effectively, it was suggested that Teller describe the present investigations with respect to this space and to inform GMX at the earliest time about any general conclusions or limitations that could be stated with respect to the space under discussion.

Teller replied that at present the following three theoretical lines were being pursued in this respect.

[Redacted]

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2. Detailed calculations concerning opacities of material are proceeding in Chicago.

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G.

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Holloway explained that July 1st would present a definite benchmark as far as scheduling is concerned because it was on that date that we would have to begin to think about assembling a specific set of models to be used at Eniwetok. This would necessarily channel the development work along the lines of this Eniwetok model.

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[redacted] The detailed analysis of this shot indicates considerable doubt as to its validity.

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Table III shows the questions which W Division needs to have answered in the near future in order to proceed with their program. The date is the one suggested by Holloway.

[redacted]

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Clark believed that J Division could give a firm answer to this question by the suggested deadline of June 1, 1950.

[redacted]

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W Division preferred the horizontal position slightly because it makes the testing program easier but wishes to emphasize that it has no objection in principle against a vertical position.

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Clark said that he would try to get a decision from J Division by May 1st if at all possible and report to the Family Committee.

With respect to (c) Holloway reported that discussions were proceeding satisfactorily between W Division and CMR to provide for

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TABLE I

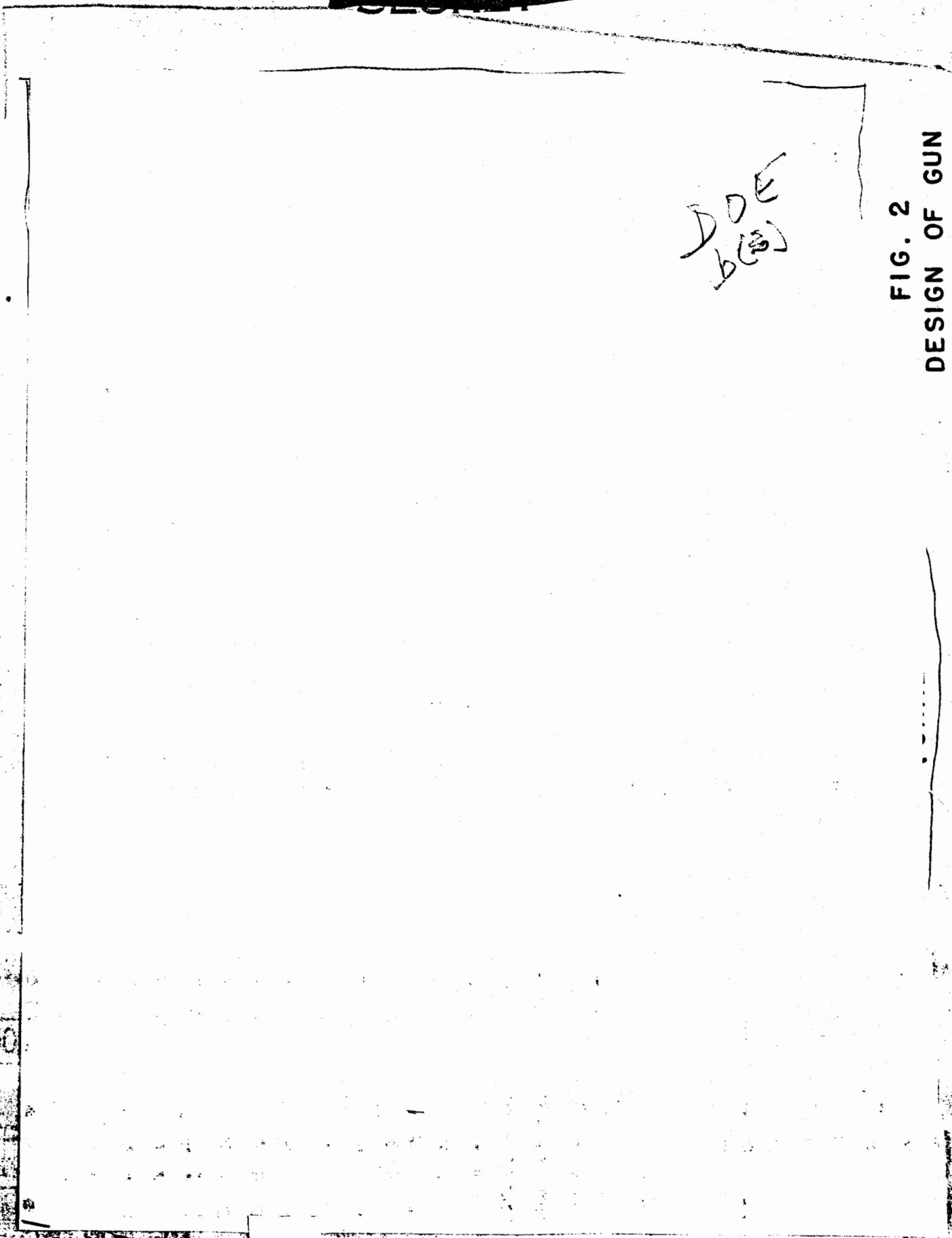
| IBM Run | Characteristics | Maximum Compression of Active Material | No. of crits * at Maximum Compression | * α | Yield * |
|---------|-----------------|--|---------------------------------------|------------|---------|
| F-4 | | | | | |
| F-5 | | | | | |

* Calculations of Smith and Taylor

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FIG. 2
DESIGN OF GUN

MOO

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