

May 2, 1942

3rd Calculation

Resonance

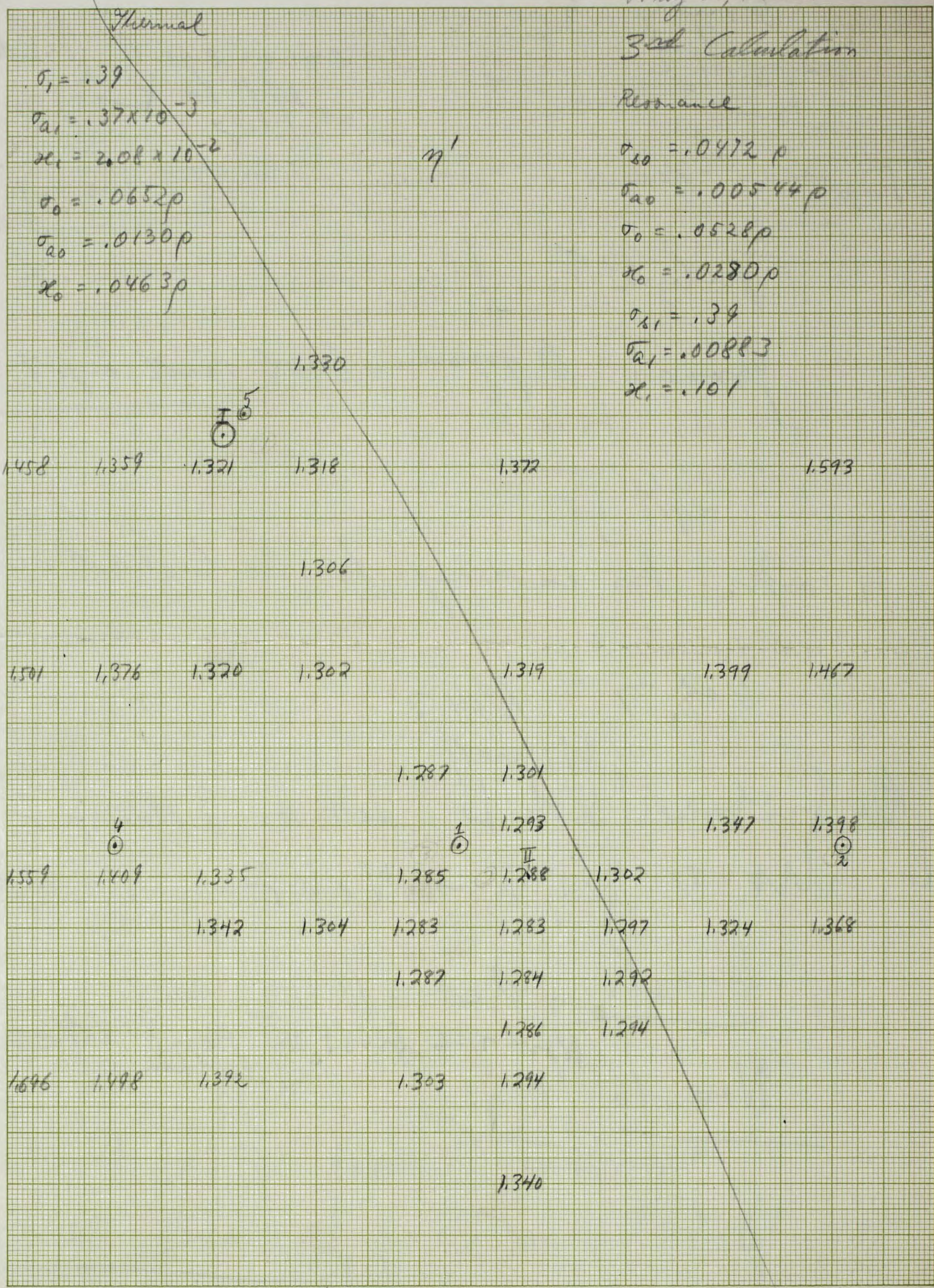
$\sigma_{50} = .0472 \rho$
 $\sigma_{20} = .00544 \rho$
 $\sigma_0 = .0528 \rho$
 $\alpha_0 = .0280 \rho$
 $\sigma_{s1} = .39$
 $\sigma_{a1} = .00883$
 $\alpha_1 = .101$

Thermal
 $\sigma_1 = .39$
 $\sigma_{a1} = .37 \times 10^{-3}$
 $\alpha_1 = 2.08 \times 10^{-2}$
 $\sigma_0 = .0652 \rho$
 $\sigma_{20} = .0130 \rho$
 $\alpha_0 = .0463 \rho$

η'

rot

9
8
7
6
5
4
3
2
1
0



2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8

$$\sqrt[3]{\frac{\text{Total Vol.}}{\text{Vol. of Uranium}}}$$

KEUFFEL & ESSER CO., N. Y. NO. 358-14
Millimeters, 10th lines heavy.
MADE IN U. S. A.

Branch May 26

Leys 42

Chemical Plant
off to X

Sept 21 What is wrong with us.

July 25 Steinbach present

groves approx bed end Sept 42
late X

Sept 29

H. arches Bi ending to be looked into

Oct 7 1942

~~Mr~~ ^{Wynnes} Swindell ask to act as advisor
to Moor for Bi - Water

Branch Oct. 1942

Nov 2-6 first on Pent cke
(Clinton)

Nov. 16 A.M.

reports of contract with Du Pont.

50-50% milking to raise 80-20

after first milk prod

Nov 26 cke approx 4
houses mostly as from ^{on way} to stable

May 2, 1942
3rd Calculation

W. H. ...

↑
r₀

9
8
7
6
5
4
3
2
1
0

1.174 1.129 1.075 1.039

1.140

1.203 1.154 1.091 1.060 1.048

1.123 1.100

1.104 1.070 1.056

1.138 1.109 1.086

1.251 1.191 1.144 1.114 1.092 1.078 1.063

1.153 1.122 1.097

1.130 1.105

1.177 1.142

1.190

2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8

$$\sqrt[3]{\frac{\text{Total Vol.}}{\text{Vol. of Uranium}}}$$

→

Wagner Memo

Feb 2

proves both types of
ending (He, the) should
be used.

May 5, 1942

All structures

Oxide $\rho = 6$

↑
80

η'

7
6
5
4
3
2
1
0

6	1.283	1.271	1.271	1.274	1.277	1.286
5	1.283	1.269	1.266	1.267	1.269	1.278
4	1.284	1.268	1.267	1.266	1.268	1.275
4	1.287	1.269	1.266	1.266	1.267	1.273
3	1.297	1.276	1.271	1.270	1.269	1.274

1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3

$r_1/r_0 \rightarrow$

Hotim and homogeneous
heavy water produced by the
plant, later revised ^{Me I} Bi II ~~Water III~~

Bi III Water IV

(Oct 22 \rightarrow Myner reports about
new Bennett plan.)

Nov 25 A.H. announces

the headed by Lewis to
report in two weeks

~~1st part of the group in it~~

between Nov 2 to 6 in Chicago

Conclusion 1% probability of success!

Nov 19 A.H. announces the

headed by Lewis will be here
on Nov 26 (an

A.H. wants report by 23rd

3 pages! on Bi

Dec 2 Black day for the mania

Jan 22 Greenwalt reports CE 407 under study
looks less favorable than before because

July 3rd attempt to write to
Bush on disastis business.

THE QUADRANGLE CLUB
CHICAGO

Finchery
Waples report for D 9
Apr. 24 } 4 months
Aug 12 }
Chc

W (1) in May
(2) in June
(3) in July

History

W to be in op in

1.) May

2.) June

3.) July 1944

PO uncertainty
from Apr. 24
to Aug 12

1844 Apr.

first W completed

1844 Dec.

fourth W completed

Midvale, Aug 1942

Leverett V. Ke ^{of} Warner the
plan could be built by Apr.
1942 (10,000 KW)