

MAR 19600002: CENTRAL ALBERTA

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19600002

F I N A L R E P O R T

LETTER OF PRIVILEGE TO EXPLORE FOR

BENTONITE

Issued to

BAROID OF CANADA, LTD.

Operating Under
PERMIT No. 198
LICENSE No. 2249

November 25, 1959

R. Keith Collins

FINAL REPORT

This report is written in fulfillment of the final conditions set by the Department of Mines and Minerals upon expiration of the letter of privilege. Lands held under this letter of privilege are as follows:

N $\frac{1}{2}$	Section 3, T55, R2, W5
N $\frac{1}{2}$	Section 32, T55, R2, W5.
N $\frac{1}{2}$	Section 33, T55, R2, W5
All	Section 4, T56, R2, W5
S $\frac{1}{2}$ & NW $\frac{1}{4}$	Section 5, T56, R2, W5
All	Section 6, T56, R2, W5
NE $\frac{1}{4}$	Section 8, T56, R2, W5
All	Section 9, T56, R2, W5
All	Section 17, T56, R2, W5
All	Section 18, T56, R2, W5
N $\frac{1}{2}$	Section 36, T55, R3, W5
All	Section 1, T56, R3, W5
E $\frac{1}{2}$	Section 11, T56, R3, W5
All	Section 12, T56, R3, W5
All	Section 13, T56, R3, W5
E $\frac{1}{2}$	Section 14, T56, R3, W5

Exploration for bentonite on a portion of these lands was conducted with a Parmanco drill. In general, exploration holes were limited to twenty feet in depth with occasional variations dictated by conditions at the site. Bentonite in this area occurs in the Edmonton Formation, Montana Epoch, Upper Cretaceous Period of the Mesozoic Era. This formation was laid down as a delta along a shoreward zone of the Fox Hills Sea at a time of extensive volcanic activity to the west. Bentonite deposits previously located in this area have closely followed the patterns of delta deposition. Some of the conditions of delta sedimentation are foreset bedding, lensed arrangements, local thin cross-bedding, and interlamination of strata of different mechanical composition.

Exploration for bentonite in this area has been very time consuming because of the nature of the deposits as described above. The lack of rapidly eroding drainage ways and the heavy undergrowth together with the rapidly changing soil conditions make it mandatory to drill blindly for bentonite deposits. The only clue seems to be certain types of soil which may overlie the bentonite. All of these areas must be drilled to prove or disprove the ground. There is a serious obstacle to rapid exploration of the lands because farmers refuse to allow the right of entry to lands on which they have growing crops. They also object to travel over their land when it is wet. In this regard wet weather and impassable roads delayed the season's exploration work by about one-half. The conditions of entry, weather and access to the lands together with the detailed exploration required preclude the rapid examination of the lands under the letter of privilege. The lands within the reservation are far from being completely explored.

The scattered areas that were drilled during the reservation period did not reveal any commercial bentonite deposits. Traces of bentonite were found but could not be extended, and consequently no tonnages are estimated.

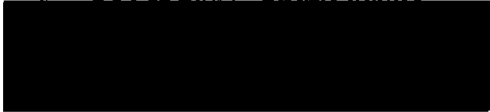
The following lands, drill hole maps of which are enclosed, were explored during the reservation period:

NE $\frac{1}{4}$ Section 4, T56, R2, W5
 NW $\frac{1}{4}$ Section 17, T56, R2, W5
 W $\frac{1}{2}$ Section 18, T56, R2, W5
 NE $\frac{1}{4}$ Section 18, T56, R2, W5
 NE $\frac{1}{4}$ Section 33, T55, R2, W5
 SE $\frac{1}{4}$ Section 12, T56, R3, W5
 NW $\frac{1}{4}$ Section 12, T56, R3, W5
 SW $\frac{1}{4}$ Section 13, T56, R3, W5

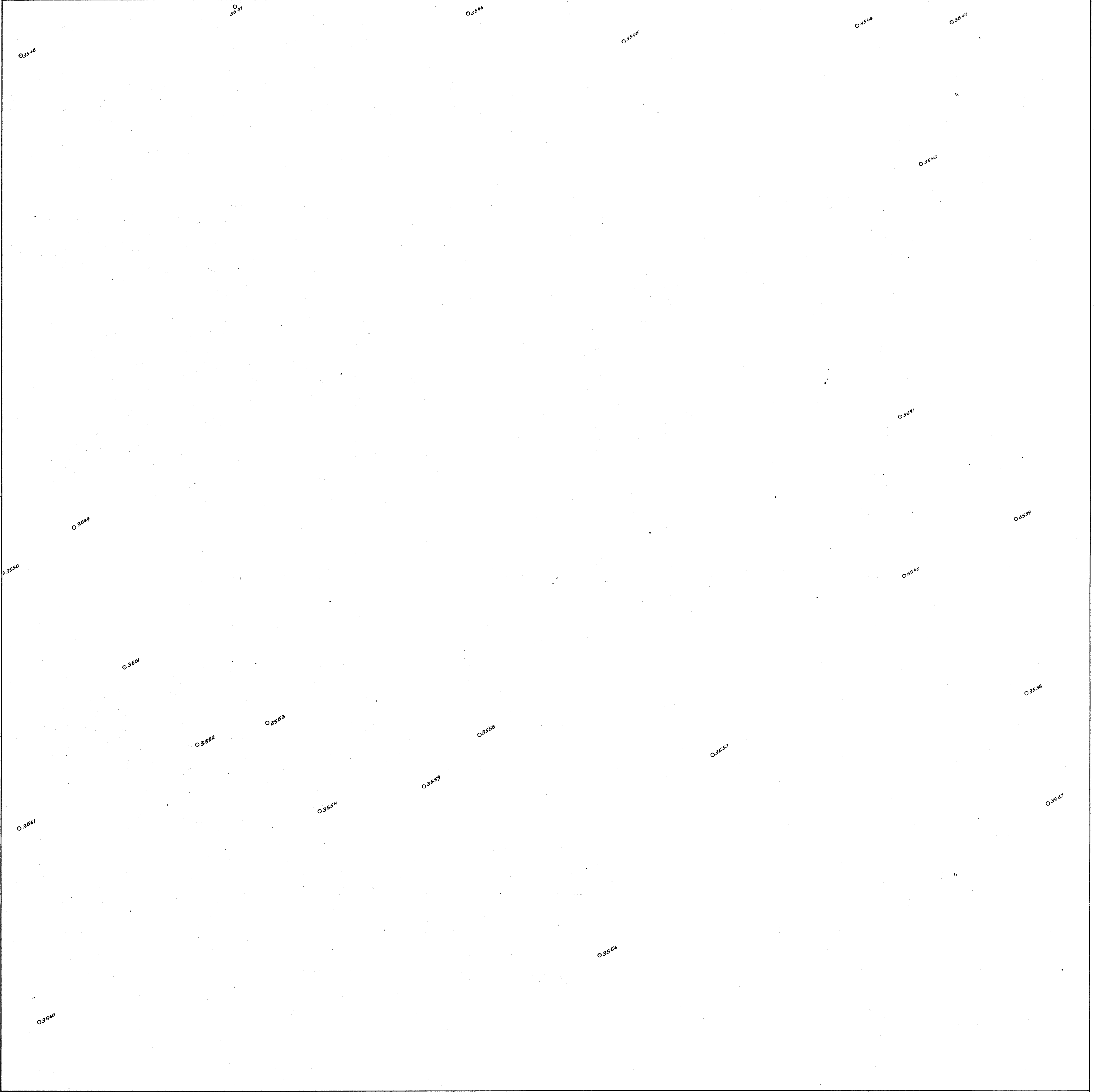
SW $\frac{1}{4}$ Section 13, T56, R3, W5

The maps show the location of each test hole and its identifying number. Below the number is shown, first, the inches of bentonite and second, the depth of overburden or the hole in feet and inches.

Respectfully submitted,



R. Keith Collins
BAROID OF CANADA, LTD.



PERMIT NO 198
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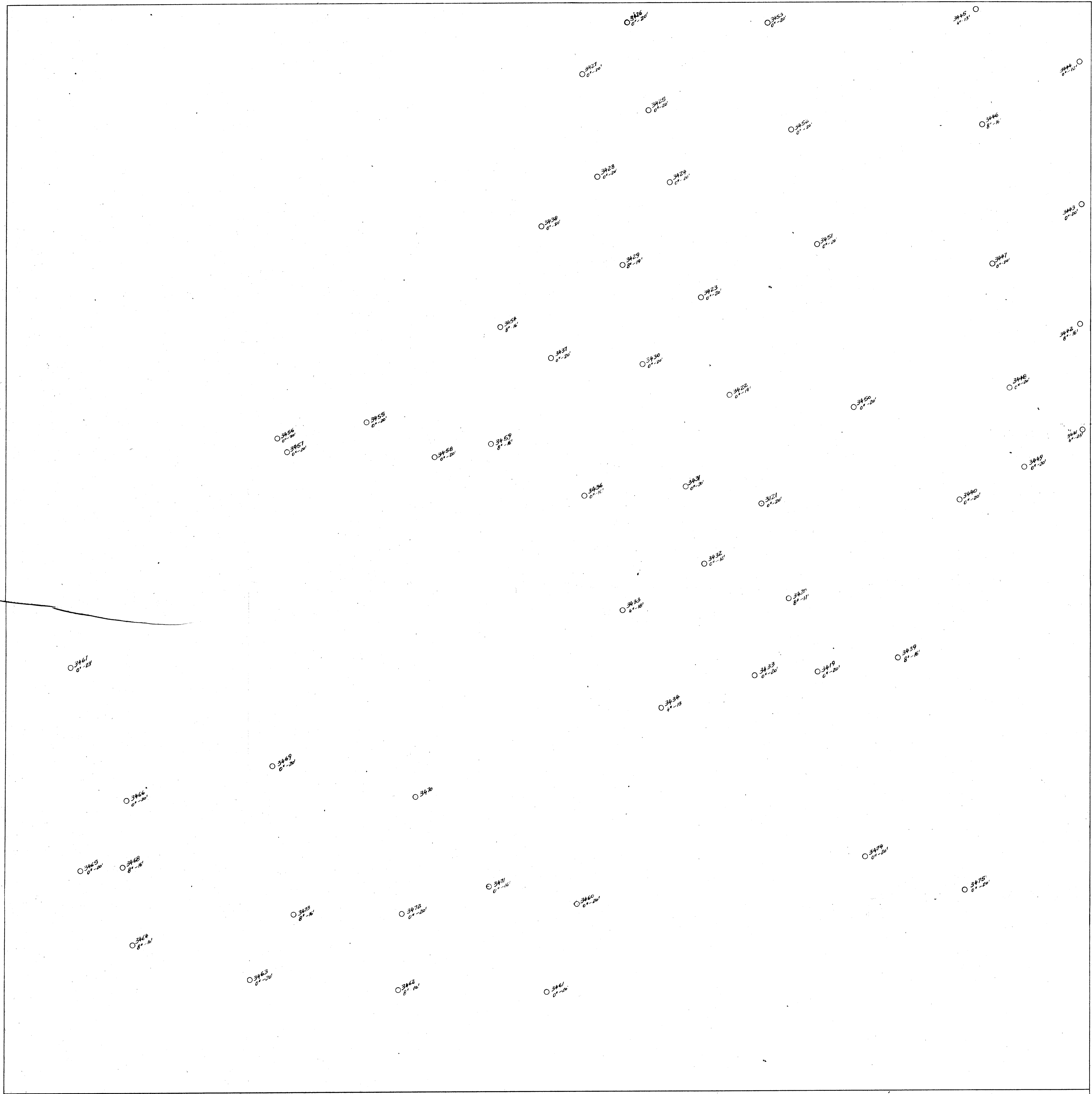
DRILL HOLE MAP
NE 1/4 SEC. 4, T 56, R 2, W 5
ALBERTA, CANADA

SCALE 1" = 100' JUNE 1959
14200002 #1



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LICENCE 2249

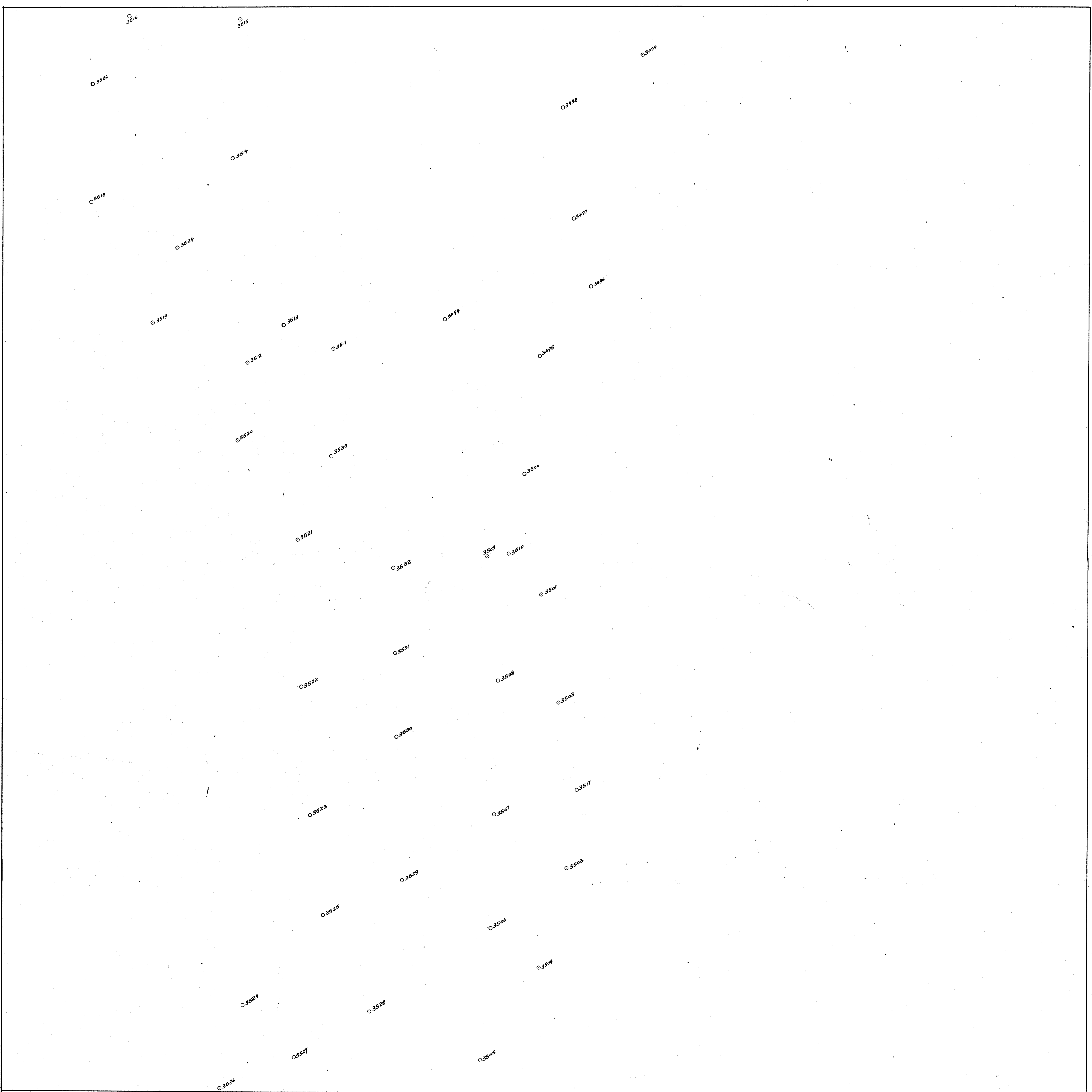
BAROID OF CANADA LTD.
DRILL HOLE MAP 19600002 #2
NW¼ SEC. T56, R2, W5
ALBERTA, CANADA
SCALE 1" = 100'



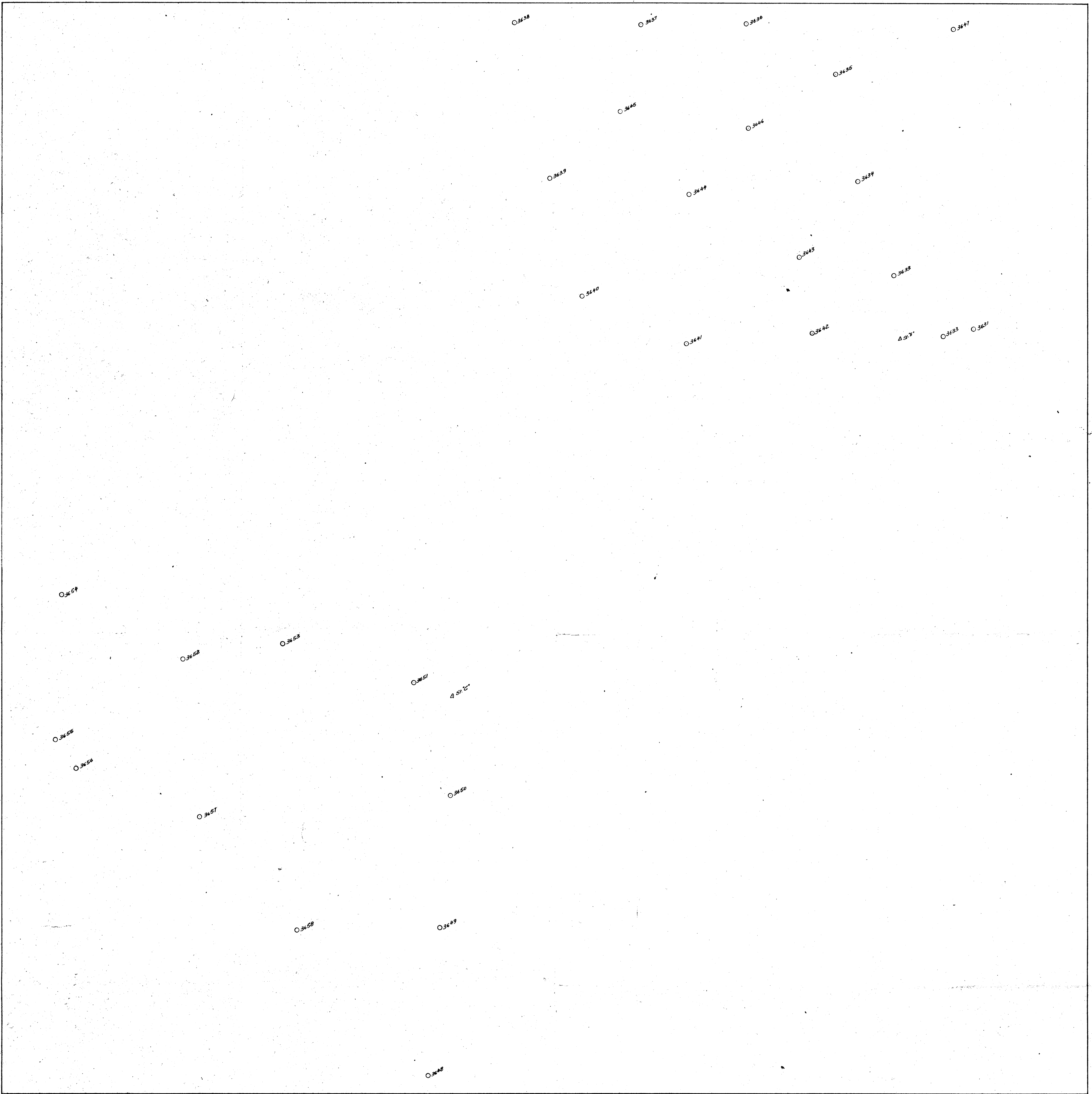
PERMIT NO. 198
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BAROID OF CANADA, LTD.
 DRILL HOLE MAP
 NE 1/4 SEC. 18, T56, R2, W 5
 ALBERTA, CANADA
 SCALE 1"=100' JUNE 1959

1600002
 #4

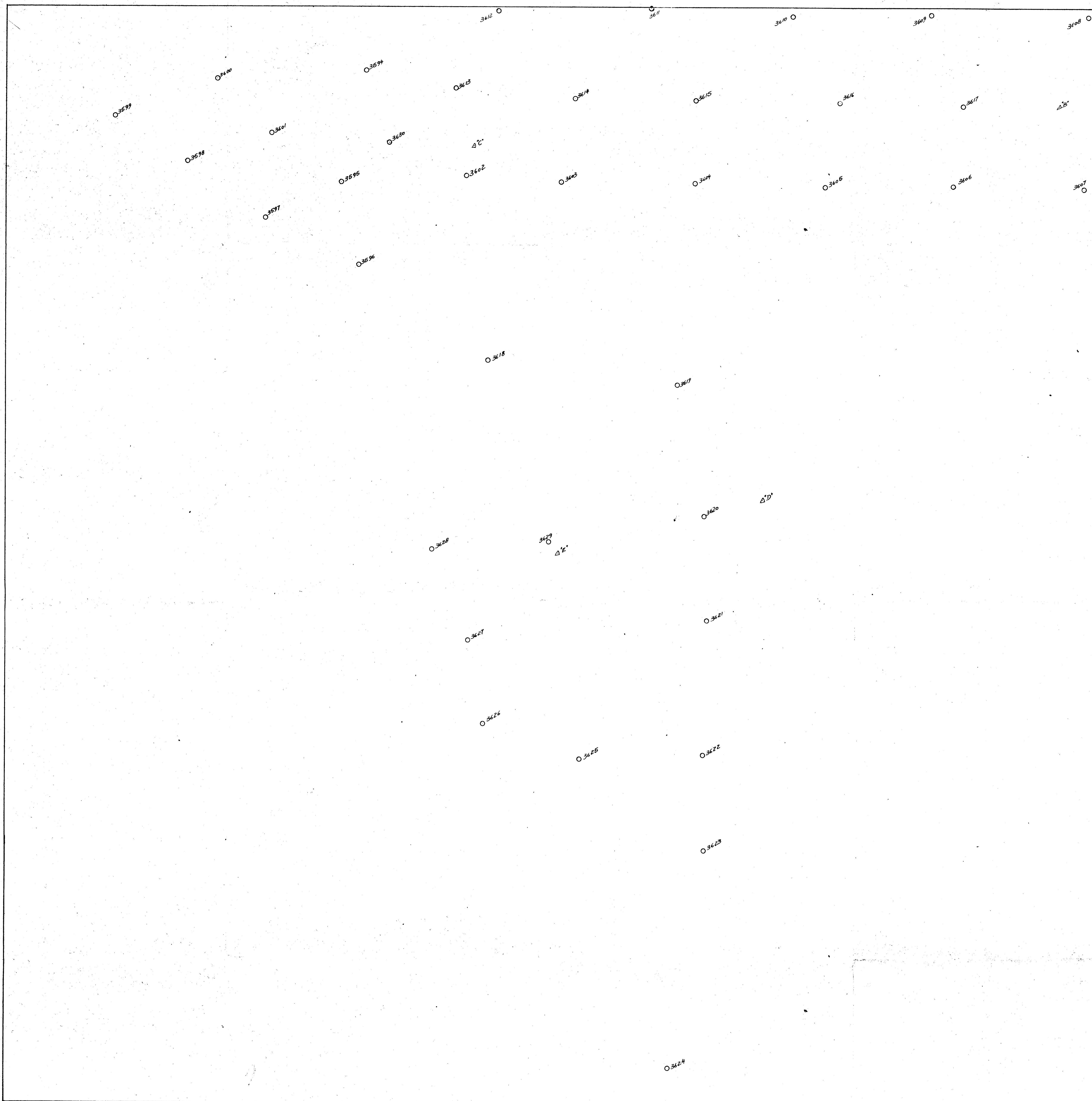


BAROID OF CANADA, LTD.
PERMIT NO. 2249
LICENCE NO. 198
1460002
#5
DRILL HOLE MAP
NE 1/4 SEC. 33, T55, R2, W 5
ALBERTA, CANADA
SCALE 1" = 100' JUNE 1959



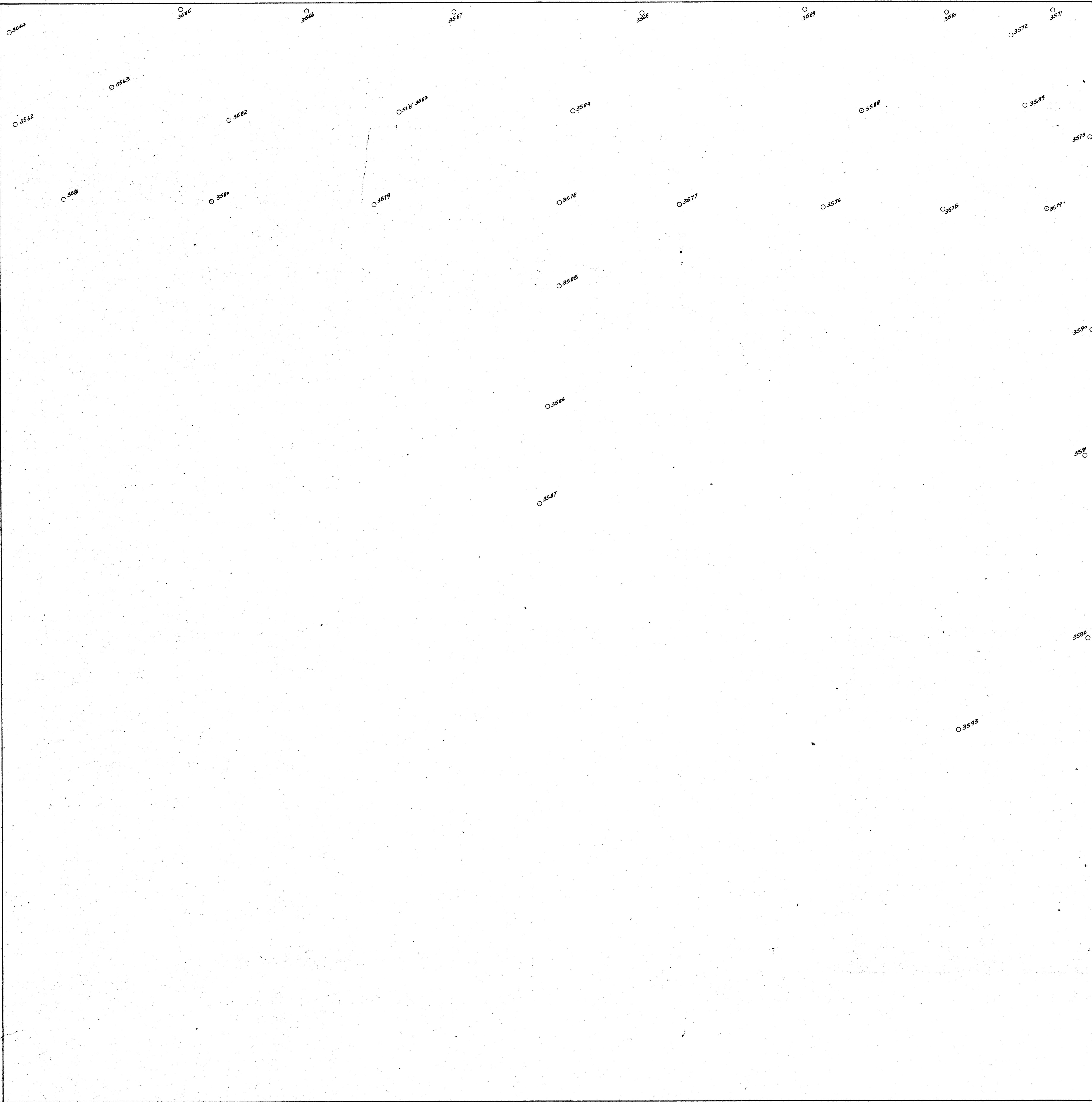
PERMIT NO. 198
LICENCE NO. 2249

BAROID OF CANADA LTD.
DRILL HOLE MAP
SE. 1/4 SEC. 12, T. 56, R. 3, W. 5
ALBERTA, CANADA
SCALE 1" = 100' JULY 1959



BAROID OF CANADA LTD.
DRILL HOLE MAP
NW¹/₄ SEC. 12, T. 56, R. 3, W. 5TH.
ALBERTA, CANADA
SCALE - 1" = 100' JULY, 1959.

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LICENCE NO. 2249



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DRILL HOLE MAP

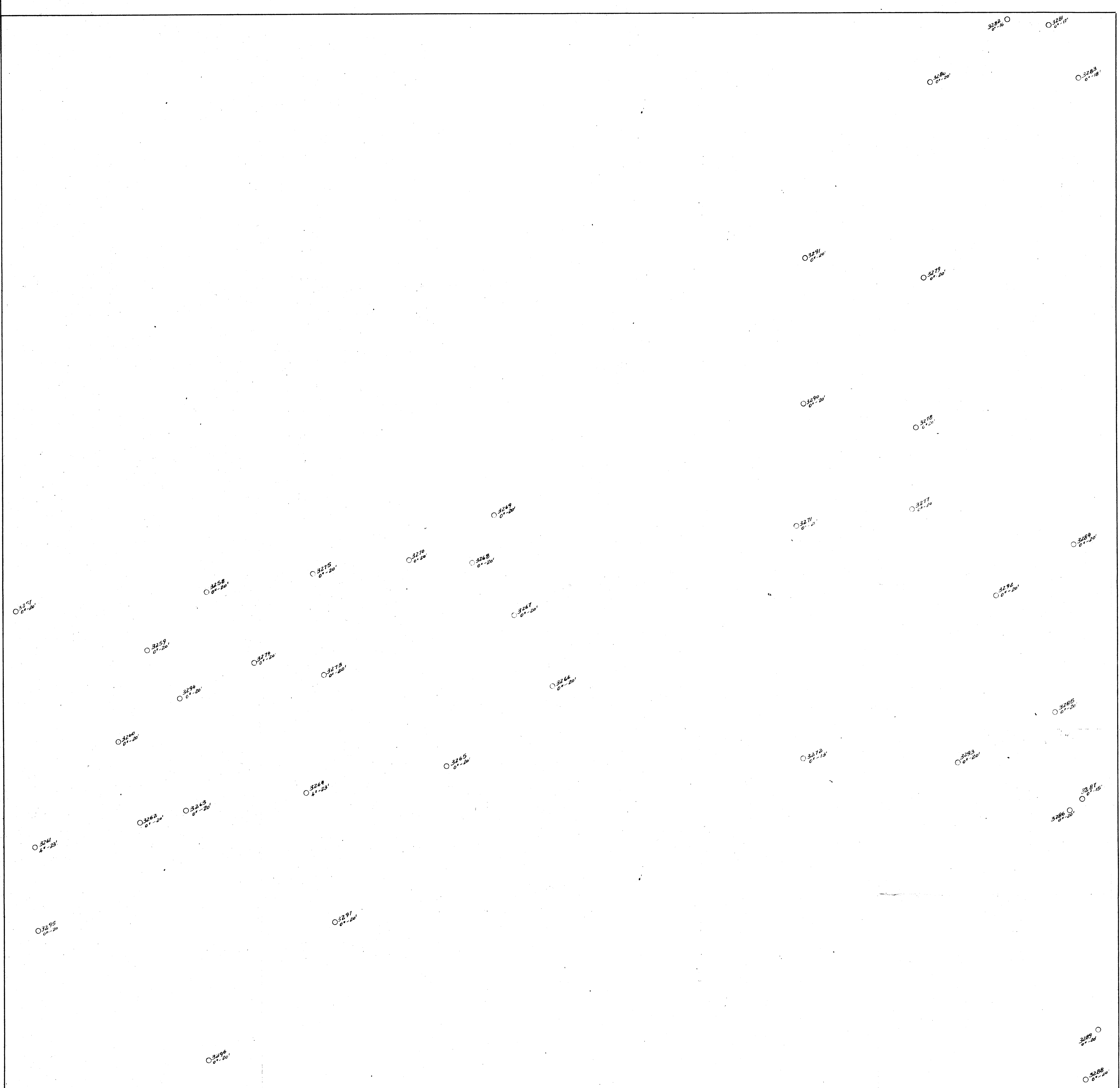
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SW $\frac{1}{4}$ SEC.13, T.56, R.3, W.5TH.

LICENCE NO. 2249

ALBERTA, CANADA

SCALE 1" = 100' JULY 1959



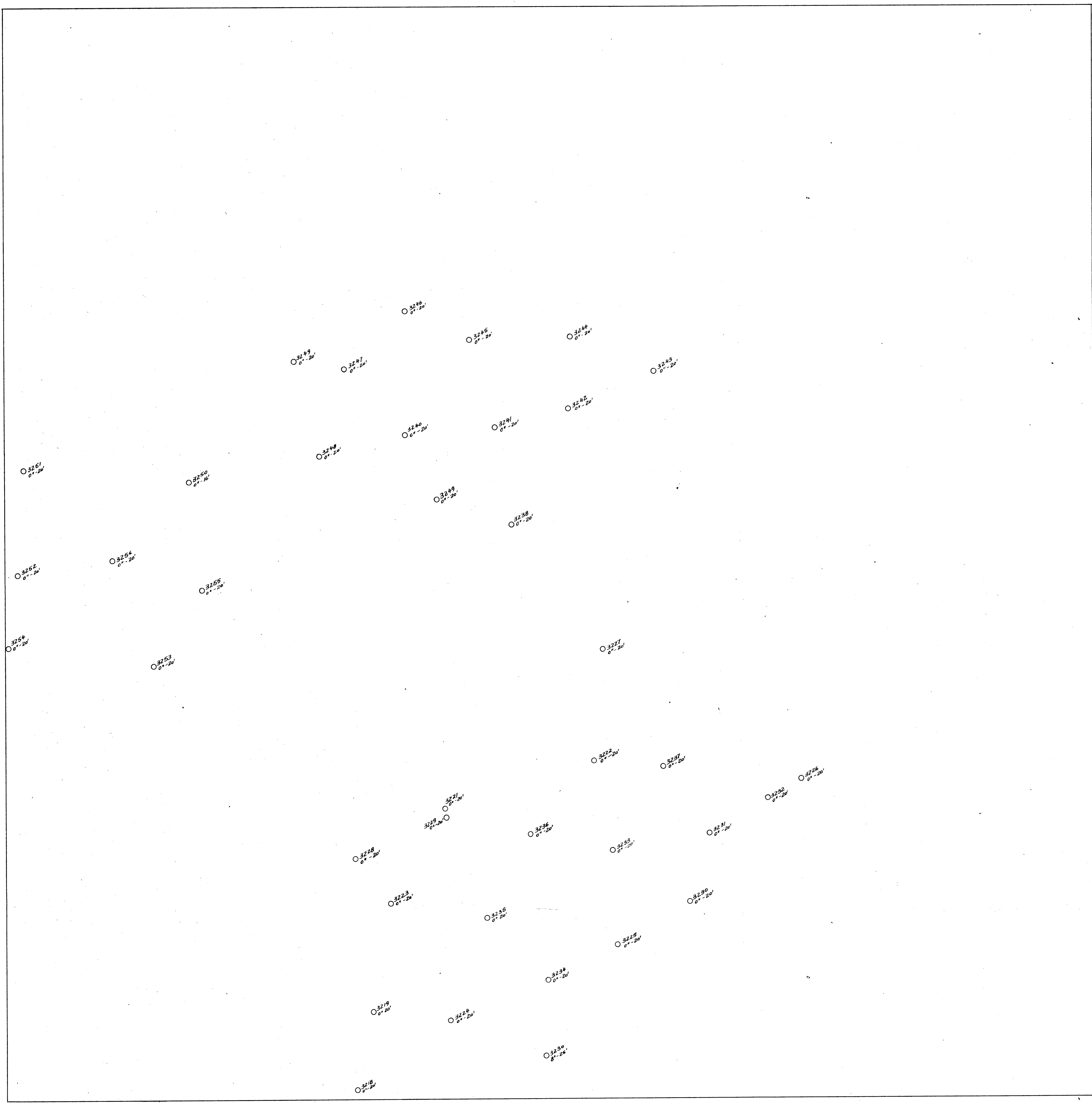
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BAROID OF CANADA, LTD.

DRILL HOLE MAP
NW/4 SEC. 18, T56, R2, W5
ALBERTA, CANADA

SCALE 1"=100' JUNE 1959

19600002 #9



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BAROID OF CANADA, LTD.
 DRILL HOLE MAP
 SW 1/4 SEC. 18, T56, R2, W5
 ALBERTA, CANADA
 SCALE 1" = 100' JUNE 1959

14600002
 # 10