

MAR 19570015: CENTRAL ALBERTA

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ECONOMIC MINERALS

FILE REPORT No.

BNT-AF-08

8 A 14

FINAL REPORT

19570015

LETTER OF PRIVILEGE TO EXPLORE FOR
BENTONITE

Issued June 17, 1955 to
BAROID OF CANADA, LTD.

Operating Under
PERMIT NO. 198

HREHIRCHEK-PYLYPOW AREA

Your File No. 79213

This report concerns 19,200 acres located in T57, R1; T58, R1; T57, R2; T58, R2; all West of the Fifth Meridian as shown on the accompanying plats.

December 26, 1957

R. Keith Collins



Indexing Document No. 700736

FINAL REPORT

Letter of Privilege Issued June 17, 1955
Expired June 30, 1957

Your File No. 79213

All lands held under this reservation are shown on the accompanying plats.

Exploration for bentonite on a portion of these lands was conducted with a Parmanco drill. Samples of bentonite obtained by drilling were sent to our laboratory in Colony, Wyoming and tested by standard industry methods.

The accompanying maps of those quarter-sections upon which drilling was conducted show the location of each hole, and its identifying number. Below the number we have shown the initial yield of the various samples from that hole. The yield is expressed in barrels of drilling fluid per ton. Below the hole number we have shown first, the inches of bentonite and secondly, the depth of overburden in feet and inches.

Thickness of the bentonite varies so rapidly and within such wide limits in this area that any estimate of tonnage is suspect. We have however, estimated that the drilled out areas within this reservation contain approximately 71,000 tons of bentonite of which approximately 29,000 tons could be utilized in the production of drilling mud.

Bentonite in this area occurs in the Edmonton Formation which occurs in the 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. Among the conditions of delta sedimentation are foreset bedding, lensed arrangements, local thin cross-bedding and interlamination of strata of different mechanical composition.

The geologic history of the Edmonton formation indicates the type of bentonite deposits we could expect to find. The field work we have done has shown this to be true. The overburden and bentonite deposits have followed closely the delta deposition patterns. The bentonite deposits are found as small, scattered lenses at no fixed horizon in the formation. The bentonite deposits show that deposition is usually by foreset bedding. Typically, the deposits show interlamination between clean bentonite and muddy or dirty bentonites, but in this area do not contain any rock.



Government File No. 79213

Letter of Privilege Issued June 17, 1955
Expired June 30, 1957

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

T 57 - R 2 - W 5

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

T 58 - R 2 - W 5

31	32	33	34	35	36
30	29	28	27	26	25
19	20	21	22	23	24
18	17	16	15	14	13
7	8	9	10	11	12
6	5	4	3	2	1

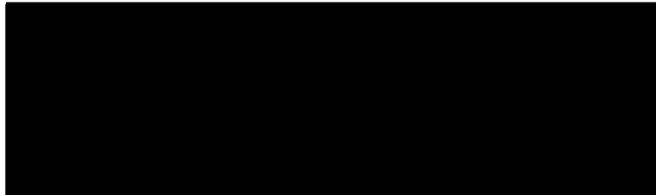
T 58 - R 1 - W 5

Some thin beds of bentonite were found which were not laminated, but yield was very poor.

This entire area was not drilled, however, the area generally was unfavorable except for one small area.

The enclosed maps of the following lands cover all drilling under this Letter of Privilege:

- #1 NE $\frac{1}{4}$ of Section 22, T57, R1, W5
- #2 NW $\frac{1}{4}$ of Section 22, T57, R1, W5
- #3 SE $\frac{1}{4}$ of Section 22, T57, R1, W5
- #4 SW $\frac{1}{4}$ of Section 22, T57, R1, W5
- #5 NE $\frac{1}{4}$ of Section 21, T57, R1, W5
- #6 NW $\frac{1}{4}$ of Section 21, T57, R1, W5
- #7 SE $\frac{1}{4}$ of Section 21, T57, R1, W5
- #8 SW $\frac{1}{4}$ of Section 21, T57, R1, W5
- #9 SE $\frac{1}{4}$ of Section 30, T57, R1, W5
- #10 SW $\frac{1}{4}$ of Section 19, T57, R1, W5



22/23

0198-522
0-47'0"

0198-525
0-47'0"

0198-526
0-47'0"

0198-528
0-47'0"

0198-529
0-47'0"

0198-530
0-47'0"

0198-531
0-47'0"

0198-532
0-47'0"

0198-533
0-47'0"

0198-534
0-47'0"

0198-535
0-47'0"

0198-536
0-47'0"

0198-537
0-47'0"

0198-538
0-47'0"

0198-539
0-30'0"

0198-540
0-47'0"

0198-541
0-47'0"

0198-542
0-47'0"

0198-543
0-47'0"

0198-544
0-47'0"

0198-545
0-47'0"

0198-546
0-47'0"

0198-547
0-47'0"

0198-548
0-47'0"

0198-549
0-30'0"

0198-550
0-47'0"

0198-551
0-47'0"

0198-552
0-47'0"

0198-553
0-47'0"

0198-554
0-47'0"

0198-555
0-47'0"

0198-556
0-45'0"

0198-557
0-47'0"

0198-558
0-47'0"

0198-559
0-45'0"

0198-560
0-47'0"

0198-561
0-42'0"

0198-562
0-47'0"

0198-563
0-47'0"

23.0
84° 38' 0"

0198-564
0-47'0"

0198-565
0-47'0"

0198-566
0-42'0"

0198-567
0-47'0"

0198-568
0-47'0"

0198-569
0-46'0"

0198-570
0-47'0"

0198-571
0-47'0"

0198-572
0-47'0"

0198-573
0-47'0"

0198-574
0-47'0"

0198-575
0-47'0"

0198-576
0-30'0"

0198-577
0-47'0"

0198-578
0-47'0"

0198-579
0-47'0"

0198-580
0-47'0"

0198-581
0-47'0"

0198-582
0-47'0"

0198-583
0-47'0"

0198-584
0-42'0"

0198-585
0-47'0"

0198-586
0-30'0"

0198-587
0-42'0"

0198-588
0-47'0"

0198-589
0-47'0"

22/23
15/14

22
15

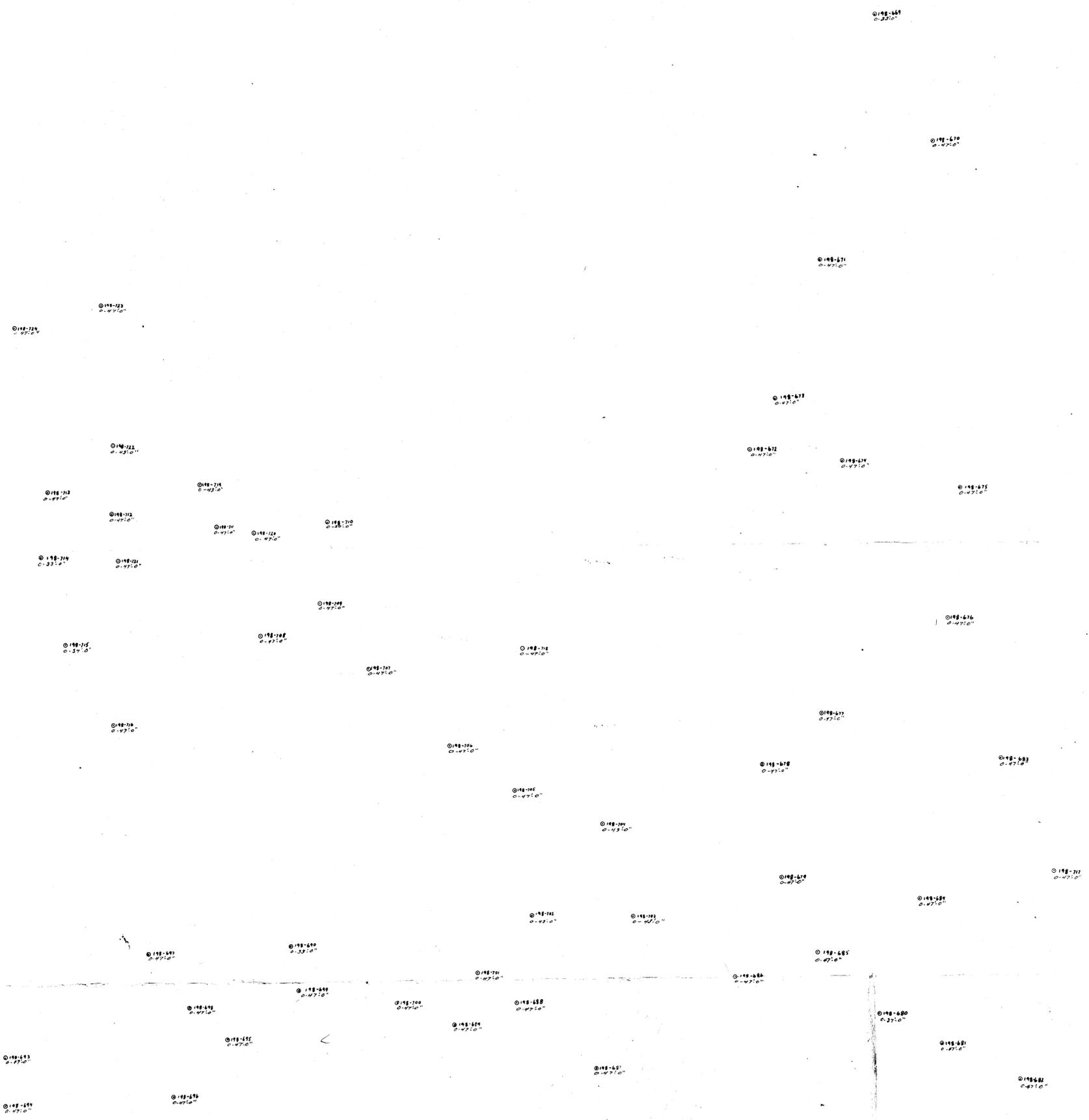
PERMIT NO. 198
GEOPHYSICAL LIC. NO. 1581/1955

BAROID OF CANADA LTD.
DRILL HOLE MAP
SE 1/4 SEC. 22 - T57-R1W-5M.
ALBERTA, CANADA
SCALE 1" = 100' OCT. 1955

1957 0014
3

RK COLLIER

21 22



21 22
16 15

22
15

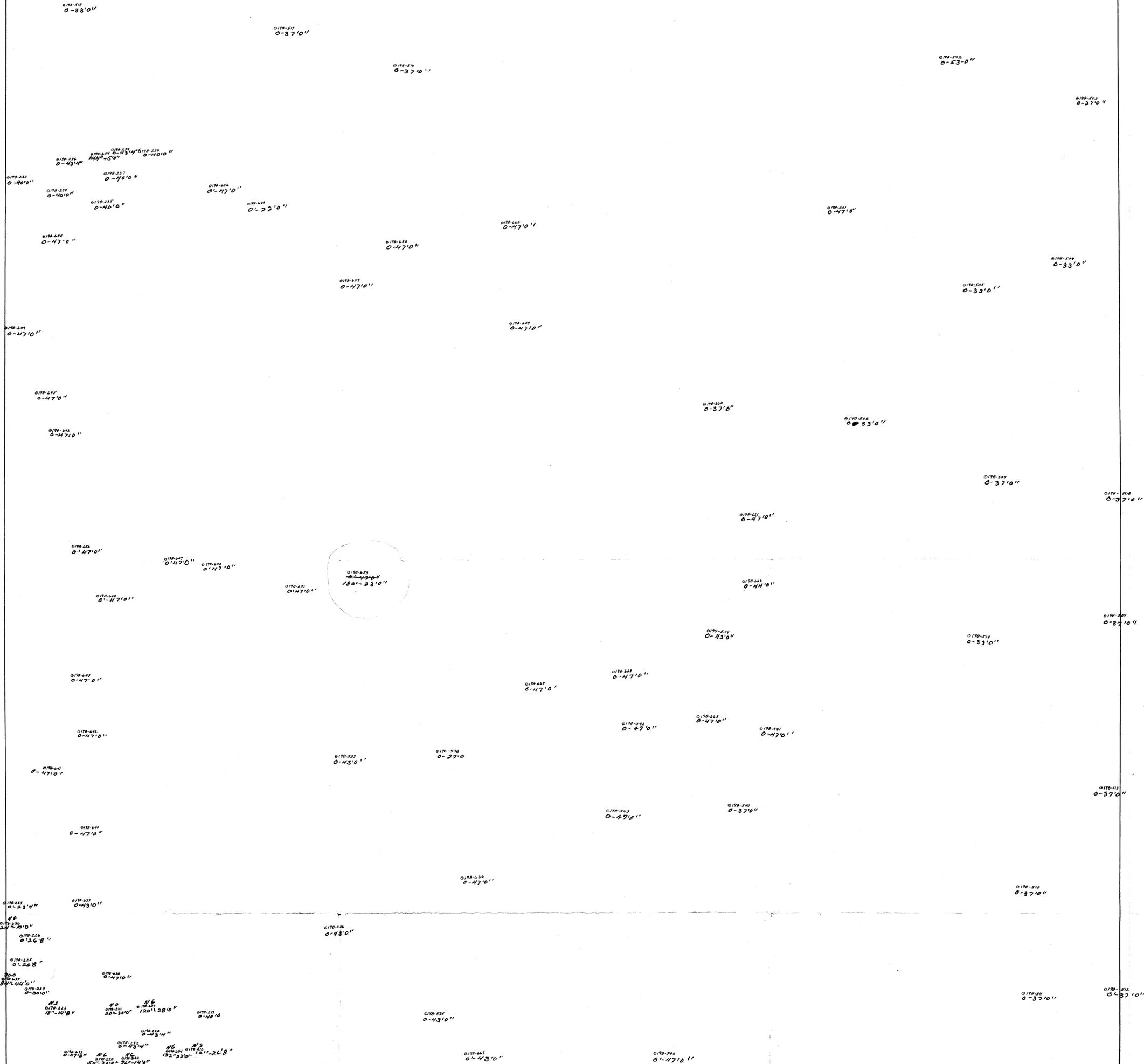
BAROID OF CANADA LTD.
 DRILL HOLE MAP
 S.W. QTR. SECTION 22 T. 57 R. 1
 WEST OF 5TH MERIDIAN
 DRILLED - 1955
 JUNE 1956
 SCALE - 1" = 100 FT.

PERMIT No. 198
 GEOPHYSICAL Lic. No. 1955

17570015
 #4

28
21 22

27
22

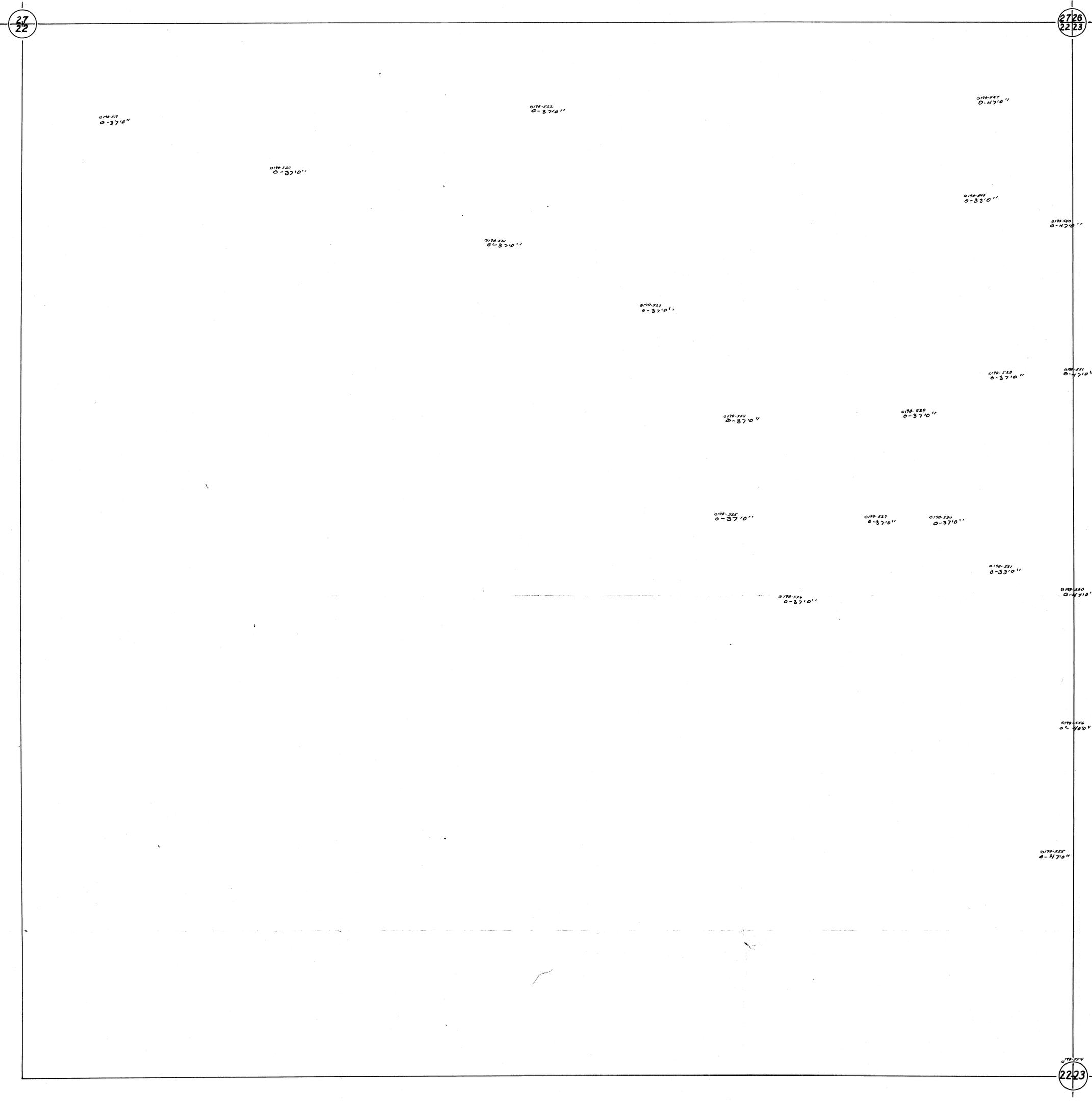


21-22

PERMIT NO. 198
 GEOPHYSICAL LIC. NO. 1581 1955

BAROID OF CANADA LTD.
 DRILL HOLE MAP
 NW 1/4 SEC. 22 - T57-R1W-5M.
 ALBERTA, CANADA
 SCALE 1" = 100' OCT. 1955

1757015
 #2
 RK. COLLINS



PERMIT NO. 198
 GEOPHYSICAL LIC. NO. 158+1955

BAROID OF CANADA LTD.
DRILL HOLE MAP
 NE ¼ SEC. 22 - T57-R1W-5M.
 ALBERTA, CANADA
 SCALE 1"=100' OCT. 1955

19570015
 # 1
 R.K. COLLINS

20 21

0 119-244
0-3678

0 119-244
0-3678

0 119-244
0-3678

20 21
17 16

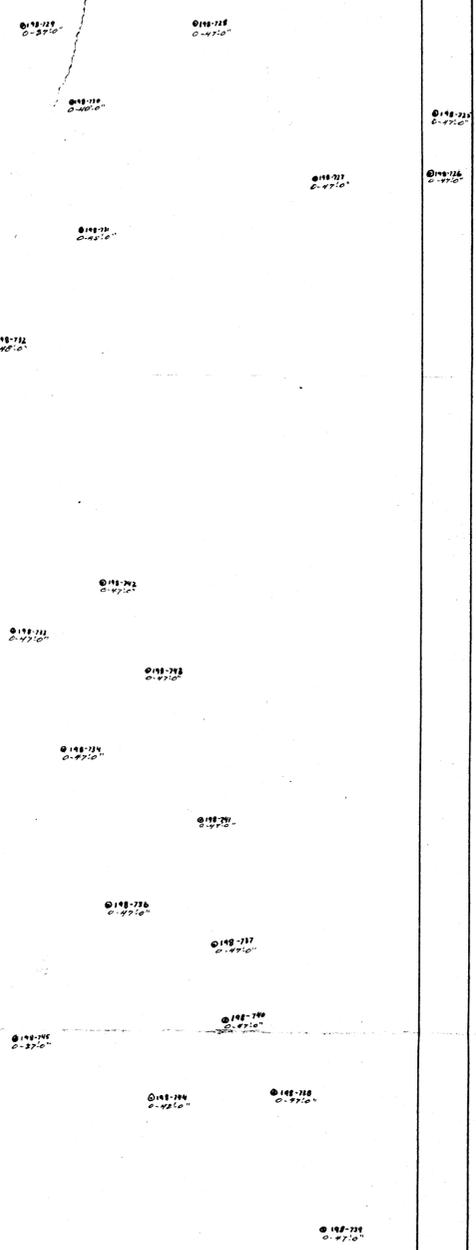
21
16

BAROID OF CANADA
DRILL HOLE MAP
S.W. QTR. SECTION 21, T. 57. R. 1
WEST OF 5TH MERIDIAN
DRILLED - 1955.
JUNE - 1956.

PERMIT No. 198
GEOPHYSICAL Lic. No. 1955

19570015
#8

21 29



21
16

21 22
16 15

BAROID OF CANADA LTD.
 DRILL HOLE MAP
 SE QTR. SECTION 21, T.57 R.1
 WEST OF 5TH MERIDIAN
 DRILLED - 1955
 JUNE - 1956
 SCALE - 1" = 100FT.

PERMIT No. 198
 GEOPHYSICAL Lic. No. 1955

19570015
 # 7

29 28
20 21

28
21

20 21

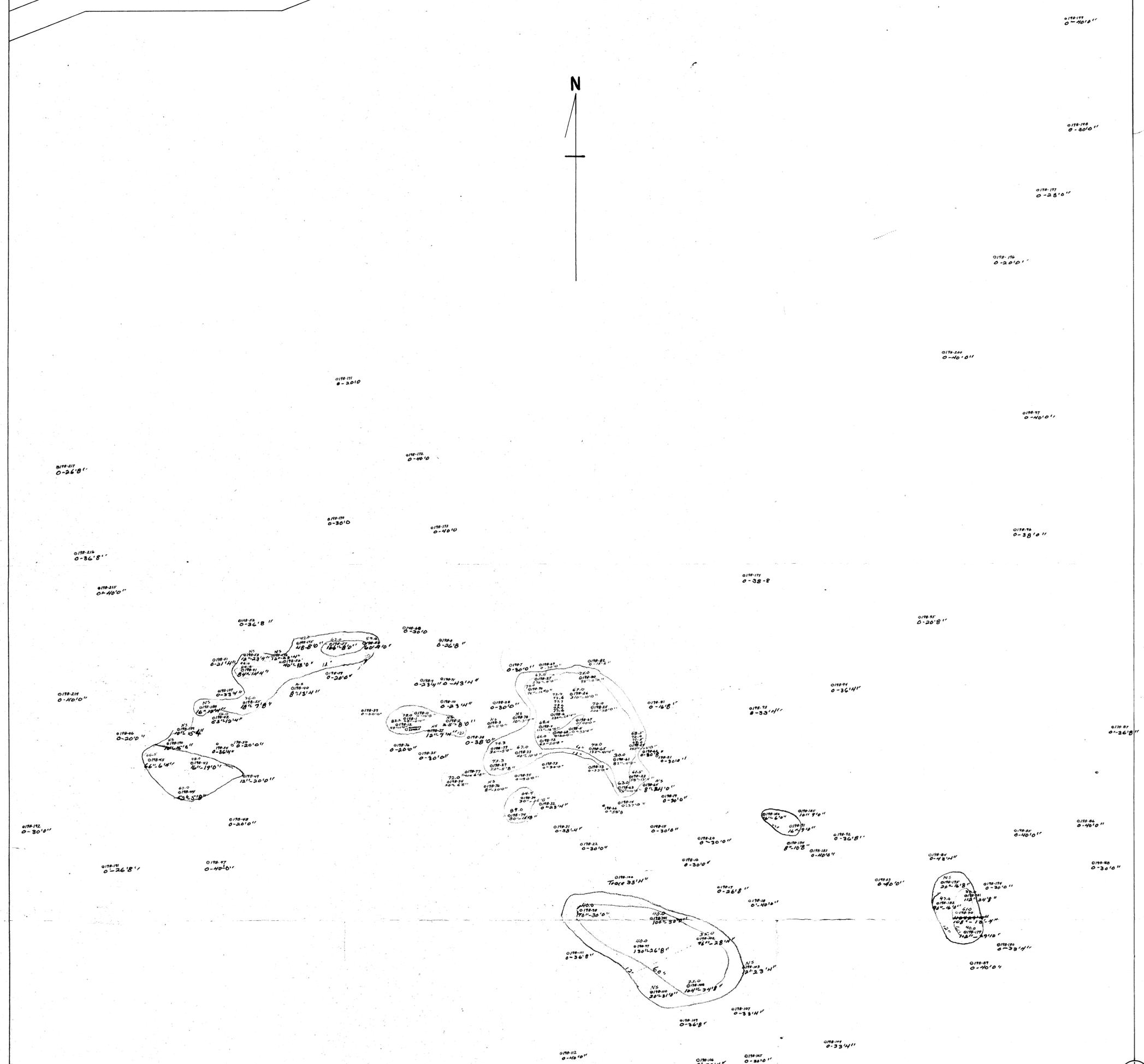
BAROID OF CANADA LTD.
DRILL HOLE MAP
NW QTR. SECTION 21 - T. 57 R. 1
WEST OF 5TH. MERIDIAN
DRILLED - 1955
JUNE, 1956.

PERMIT No. 198
GEOPHYSICAL Lic. No. 1955

19570015
6

28
21

2827
2122



2. 400 x 200' 12-130" θ 2, yield 35-40; 12-210" θ 50, yield 65-70
1. 400 x 100' 12-160" θ , θ yield 36-60

2122

PERMIT NO. 198
GEOPHYSICAL LIC. NO. 1581 1955

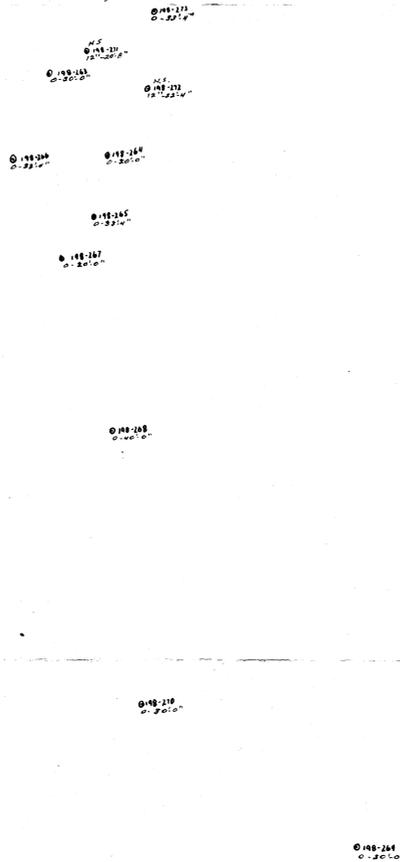
BAROID OF CANADA LTD.
DRILL HOLE MAP
NE 1/4 SEC. 21 - T57-R1W-5M.
ALBERTA, CANADA
SCALE 1"=100' AUG. 1955
REVISED OCT. 1955

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5
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24 19

24 19
13 18

19
18



BAROID OF CANADA
 DRILL HOLE MAP
 S.W. QTR. SECTION 19 T.57, R.1
 WEST OF 5TH MERIDIAN
 DRILLED - 1955
 JUNE, 1956
 SCALE - 1" = 100FT.

PERMIT No. 198
 GEOPHYSICAL Lic. No. 1955

19570015
 #10

30-20

0178-127
0-50'0"

0178-126
0-50'0"

0178-125
0-43'4"

0178-124
0-30'0"

0178-123
0-50'0"

0178-122
0-33'4"

0178-121
0-50'0"

0178-120
0-40'0"

0178-119
0-36'8"

0178-118
0-43'4"

0178-117
0-50'0"

0178-116
0-50'0"

0178-115
0-50'0"

0178-114
0-50'0"

0178-113
0-50'0"

0178-112
0-40'0"

0178-111
0-50'0"

0178-110
0-36'8"

0178-109
0-50'0"

0178-108
0-50'0"

0178-107
0-33'4"

0178-106
0-50'0"

0178-105
0-40'0"

0178-104
0-30'0"

0178-103
0-30'0"

0178-102
0-23'4"



0178-101
0-10'8"

0178-100
0-30'0"

0178-99
0-43'4"

0178-98
0-26'8"

0178-97
0-30'0"

0178-96
0-46'8"

0178-95
0-43'4"

0178-94
0-43'4"

0178-93
0-43'4"

0178-92
0-50'0"

0178-91
0-50'0"

0178-90
0-50'0"

0178-89
0-50'0"

0178-88
0-50'0"

0178-87
0-50'0"

0178-86
0-50'0"

0178-85
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0178-84
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0178-83
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0178-82
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0178-81
0-50'0"

0178-80
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0178-78
0-50'0"

0178-77
0-50'0"

0178-76
0-50'0"

0178-75
0-50'0"

0178-74
0-50'0"

0178-73
0-50'0"

0178-72
0-50'0"

0178-71
0-50'0"

30
19

30
19

PERMIT NO. 198
GEOPHYSICAL LIC. NO. 1581/1955

BAROID OF CANADA LTD.
DRILL HOLE MAP
SE 1/4 SEC. 30 - T57-R1W-5M.
ALBERTA, CANADA
SCALE 1"=100' AUG. 1955
REVISED OCT. 1955

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#9
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