

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

---

AVAILABILITY OF PETROGRAPHIC THIN-SECTIONS  
FROM THIRTY-FIVE WELLS FROM NATIONAL PETROLEUM RESERVE IN ALASKA  
NORTH SLOPE, ALASKA

by

Arthur L. Bowsher, Irvin L. Tailleux, and H. A. Gibson

OPEN-FILE REPORT NO. 81-1307

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

Availability of petrographic thin-sections  
from thirty-five wells from National Petroleum Reserve in Alaska  
North Slope, Alaska

by

Arthur L. Bowsher, Irvin L. Tailleux, and H. A. Gibson

Cores and cuttings from wells drilled in the National Petroleum Reserve in Alaska are available for non-destructive examination at the NPRA core storage "facility" in Anchorage, Alaska. Sets of thin-sections from cores from thirty-five wells in the National Petroleum Reserve in Alaska are available for study on request as indicated below. These sets are made as a matter of convenience in connection with a study of the density of cores from the wells. R. Morin and H. Gibson sampled the cores to obtain specific gravity determinations for characteristic rock types represented in the cores. Sampling was designed so that we could obtain thin-sections of the material from which specific gravity determinations were made. Attempt was made to include any and all reservoir rocks.

Thin-section sets for each well will be sent out on three-week loan in the order that written requests are received. The slides may be retained for study by the U.S. Geological Survey for up to three weeks between successive loans. There are no facilities for systematic on-site examination of the slides.

Requests for loan should be sent to:

I. L. Tailleux  
Office of National Petroleum Reserve in Alaska  
U.S. Geological Survey, MS 87  
345 Middlefield Road  
Menlo Park, California 94025

Stratigraphic names are used in the lists of slides only for convenience of identifying the strata from which the thin-section is made and do not imply that the term is formally accepted by the U.S. Geological Survey (Committee on Stratigraphic Nomenclature).

The thin-sections made available for study through this report are as follow:

Afigaru No. 1 (ATI #1)  
NE/4, sec. 19, T. 14 N., R. 2 E.

**Ivishak Formation**

8,713 ft.  
8,725 ft.

**"argillite"**

11,523.5 ft.

T.D. 11,535 ft.

Awuna No. 1 (AWU #1)

SE/4, sec. 30, T. 3 S., R. 25 W.

**Torok Formation**

2,452 ft.  
3,666.5 ft.  
3,667.5 ft.  
3,676 ft.  
6,014 ft.  
6,021 ft.  
6,028 ft.

T.D. 11,200 ft.

South Barrow No. 1 (S. BAR #1)

cen N/2, sec. 28, T. 23 N., R. 18 W.

**"pebble shale unit"**

3,042 ft.  
3,069 ft.  
3,083 ft.  
3,105.2 ft.  
3,106.5 ft.  
3,115 ft.  
3,152 ft.  
3,153.3 ft.  
3,158.5 ft.  
3,181.5 ft.  
3,193 ft.  
3,196 ft.  
3,196.4 ft.  
3,227.3 ft.  
3,238 ft.  
3,330 ft.

**"argillite"**

3,553 ft.

T.D. 3,553 ft.

South Barrow No. 2 (S. BAR #2)

NW/4, sec. 14, T. 22 N., R. 18 W.

**"pebble shale unit"**

1,955 ft.  
2,020 ft.  
2,060 ft.  
2,111 ft.  
2,254 ft.  
2,287 ft.

**Kingak Formation**

2,332 ft.

**"Barrow Sand"**

2,356 ft.

**Shublik Formation**

2,440 ft.

T.D. 2,505 ft.

South Barrow No. 3 (S. BAR #3)

S 1/4, sec. 13, T. 21 N., R. 18 W.

**Torok Formation**

201 ft.  
403 ft.  
993 ft.

**"pebble shale unit"**

1,406 ft.  
1,613 ft.  
1,625 ft.

**Kingak Formation**

1,740 ft.  
2,030 ft.  
2,100 ft.  
2,170 ft.  
2,200 ft.  
2,268.5 ft.  
2,300 ft.  
2,320 ft.

**"Barrow Sand"**

2,363 ft.  
2,410 ft.  
2,468 ft.

**Sag River Formation**

2,590 ft.  
2,610 ft.

**Shublik Formation**

2,639 ft.  
2,738 ft.  
2,779 ft.

**"argillite"**

2,879 ft.

T.D. 2,900 ft.

South Barrow No. 6 (S. BAR #6)

cen N/2, sec. 14, T. 22 N., R. 18 W.

**"Barrow Sand"**

2,346 ft.  
2,360 ft.

T.D. 2,363 ft.

South Barrow No. 9 (S. BAR #9)

SE/4, sec. 11, T. 22 N., R. 18 W.

**"pebble shale unit"**

2,017 ft.  
2,042 ft.  
2,061 ft.  
2,098 ft.  
2,365 ft.  
2,372 ft.

**Kingak Formation**

2,384 ft.  
2,401 ft.  
2,404 ft.  
2,413 ft.  
2,434 ft.

T.D. 2,450 ft.

South Barrow #12 (S. BAR #12)

sw/4, sec. 23, T. 22 N., R. 17 W.

**"upper Barrow sand"**

1,966 ft.  
1,981 ft.  
1,988 ft.  
2,000 ft.  
2,003.5 ft.  
2,021 ft.  
2,037 ft.  
2,056 ft.

**Kingak Formation**

2,072 ft.  
2,081.5 ft.  
2,093 ft.  
2,168.5 ft.  
2,180 ft.

**"lower Barrow sand"**

2,196 ft.  
2,202.5 ft.  
2,209 ft.  
2,213.5 ft.

**Sag River Formation**

2,234 ft.  
2,246 ft.  
2,260 ft.

**"argillite"**

2,272 ft.  
2,273 ft.  
2,285 ft.

T.D. 2,285 ft.

South Barrow No. 13 (S. BAR #13)

SW/4, sec. 14, T. 22 N., R. 18 W.

**"pebble shale unit"**

2,163 ft.  
2,173 ft.  
2,184 ft.  
2,188 ft.  
2,208 ft.

**Kingak Formation**

2,291 ft.  
2,303 ft.  
2,312 ft.  
2,323 ft.

**"Barrow Sand"**

2,331 ft.  
2,341 ft.  
2,412 ft.  
2,422 ft.  
"argillite"  
2,525 ft.

T.D. 2,490 ft.

South Barrow No. 16 (S. BAR #16)

SE/4, sec. 1, T. 22 N., R. 18 W.

**"argillite"**

2,395 - 2,398 ft.

T.D. 2,399 ft.

South Barrow No. 17 (S. BAR #17)

NW/4, sec. 30, T. 22 N., R. 18 W.

**Kingak Formation**

2,020 ft.

**"Barrow Sand"**

2,096 ft.  
2,099 ft.  
2,103 ft.  
2,118 ft.  
2,126 ft.  
2,128 ft.  
2,130 ft.  
2,136 ft.  
2,142 ft.  
2,149 ft.

**Sag River Formation**

2,323 ft.  
2,325 ft.  
2,328 ft.  
2,334 ft.  
2,335 ft.  
2,337 ft.  
2,338 ft.  
2,343 ft.  
2,344 ft.

**"argillite"**

2,345 ft.

T.D. 2,382 ft.

South Barrow No. 18 (S. BAR #18)

SW/4, sec. 24, T. 22 N., R. 17 W.

**Torok Formation**

1,360.2 ft.

**"pebble shale unit"**

1,704 ft.  
1,713 ft.  
1,733 ft.  
1,754.5 ft.  
1,760.5 ft.

T.D. 2,125 ft.

South Barrow No. 19 (S. BAR #19)  
SE/4, sec. 23, T. 22 N., R. 17 W.

Torok Formation  
1,331 ft.  
1,336 ft.  
1,346 ft.

"pebble shale unit"  
1,352.5 ft.  
1,354.3 ft.

"Barrow Sand"  
2,044 ft.  
2,047 ft.

Triassic  
2,054.3 ft.  
2,064.5 ft.

Sag River Formation  
2,209 ft.  
2,220 ft.  
2,225 ft.  
2,230 ft.  
2,231 ft.  
2,235 ft.  
2,245 ft.

T.D. 2,300 ft.

West Dease No. 1 (WD #1)  
NE/4, sec. 21, T. 21 N., R. 14 W.

Nanushuk Group  
605 ft.  
626 ft.  
1,099.5 ft.  
1,905 ft.  
1,916 ft.

"pebble shale unit"  
2,959 ft.  
2,974.6 ft.

Upper "Barrow Sand"  
3,701 ft.  
3,715 ft.  
3,721 ft.  
3,752 ft.  
3,780 ft.  
3,786.2 ft.  
3,794 ft.

Lower "Barrow Sand"  
3,817 ft.  
3,823 ft.  
3,912.5 ft.  
3,921 ft.

Sag River Formation  
3,960 ft.  
4,000.4 ft.

"argillite"  
4,151

T.D. 4,170 ft.

Drew Point (DPW)  
se/4, sec. 26, T. 18 N., R. 8 W.

Torok Formation  
4,130 ft.  
4,136 ft.  
5,530 ft.  
5,903.5 ft.  
5,908.2 ft.

"Barrow sand"  
6,924.5 ft.  
6,936.5 ft.

Sag River Formation  
6,979 ft.  
6,994 ft.  
7,005 ft.

Shublik Formation  
7,903 ft.  
7,352.2 ft.  
7,362 ft.  
7,374 ft.  
7,376 ft.  
7,545.5 ft.  
7,563 ft.

Ivishak Formation  
7,572 ft.  
7,573 ft.  
7,574.2 ft.  
7,575.2 ft.  
7,627.4 ft.

Echooka Formation  
7,803 ft.

Endicott Group  
7,813 ft.

"argillite"  
7,882 ft.  
7,901 ft.

T.D. 7,945 ft.

W.T. Foran No. 1 (W.T.F. #1)  
NW/4, sec. 13, T. 17 N., R. 2 W.

Shublik Formation  
7,545 ft.  
7,547 ft.  
7,550 ft.  
7,552 ft.  
7,553 ft.  
7,556 ft.

Permian Limestone  
8,254 ft.  
8,258 ft.  
8,262 ft.  
8,266 ft.  
8,273 ft.  
8,283 ft.

T.D. 8,864 ft.

South Harrison Bay No. 1 (SHB #1)  
NW/4, sec. 6, T. 12 N., R. 2 E.

Permian Limestone  
10,613 ft.  
10,619 ft.  
10,621 ft.  
10,625 ft.

T.D. 11,290 ft.

Ikpikpuk No. 1 (IKPIK #1)  
NE/4, sec. 25, T. 13 N., R. 10 W.

Nanushuk Group  
2,930 ft.  
2,936 ft.  
2,939 ft.  
2,947 ft.  
2,950.5 ft.  
2,960.5 ft.

Torok Formation  
3,787 ft.  
3,799.5 ft.  
3,810 ft.  
5,690.5 ft.  
5,697 ft.  
7,136 ft.  
7,138 ft.  
7,141.5 ft.

"pebble shale unit"  
7,369 ft.  
7,374.5 ft.

Kingak Formation  
7,495 ft.  
7,501 ft.

Shublik Formation  
10,270.5 ft.  
10,274.5 ft.  
10,283.5 ft.  
10,289 ft.  
10,294.5 ft.  
10,300 ft.

Ivishak Sandstone  
10,619.5 ft.  
10,621 ft.  
10,629 ft.  
10,633.5 ft.  
10,639.5 ft.  
10,647.5 ft.  
10,815 ft.  
10,820 ft.  
10,823 ft.  
10,824 ft.  
10,828 ft.  
10,830.5 ft.  
10,833.5 ft.  
10,838.5 ft.

Kavik Shale  
11,108 ft.  
11,118 ft.  
11,120 ft.  
11,126 ft.  
11,135 ft.

Permian Limestone  
11,719  
11,724 ft.  
12,749 ft.  
12,753 ft.  
12,971.5 ft.

Endicott Group  
14,976.5 ft.  
14,977.5 ft.  
14,983 ft.  
14,985.5 ft.

"argillite"  
15,421 ft.  
15,465 ft.

T.D. 15,481 ft.

Inigok No. 1 (INIG #1)  
NE/4, sec. 34, T. 8 N., R. 5

Nanushuk Group  
2,637.7 ft.  
2,649 ft.  
2,661 ft.  
3,081 ft.

Torok Formation

4,212 ft.  
5,006 ft.  
5,007.5 ft.  
7,059.8 ft.  
7,064.3 ft.  
8,216 ft.  
8,220 ft.  
8,227.4 ft.  
8,236.5 ft.  
8,236.6 ft.  
8,851.8 ft.

Kingak Formation

9,342.1 ft.  
9,345 ft.  
9,448.7 ft.  
9,455.8 ft.  
10,998 ft.  
11,707 ft.  
11,710 ft.

Shublik Formation

12,273.5 ft.  
12,276.5 ft.  
12,500 ft.  
12,529 ft.  
12,711 ft.  
12,730 ft.

Sadlerochit Group

13,485 ft.  
13,496 ft.  
13,508 ft.  
13,842 ft.  
13,848 ft.  
13,849.5 ft.

Permian Limestone

13,855.5 ft.  
13,865 ft.  
13,873 ft.  
14,021.5 ft.  
14,037 ft.  
14,040.4 ft.  
14,042 ft.  
14,059.8 ft.  
14,065.6 ft.  
15,186.5 ft.  
15,193 ft.  
15,210 ft.

Lisburne Group

16,194.8 ft.  
16,197.3 ft.  
17,058.5 ft.  
17,069.5 ft.  
17,081 ft.

Kekiktuk Conglomerate

19,360 ft.  
19,363.4 ft.  
19,366.5 ft.  
19,369 ft.  
20,092 ft.

T.D. 20,102 ft.

North Inigok No. 1 (N. INIG #1)  
SE/4, sec. 36, T. 11 N., R. 4 W.

Torok Formation

6,852 ft.  
6,855 ft.  
6,864 ft.

"pebble shale unit"

7,490 ft.  
7,499.5 ft.  
7,501 ft.

Sag River Formation

10,162 ft.  
10,167 ft.  
10,168.3 ft.

T.D. 10,170 ft.

J. W. Dalton No. 1 (JWD #1)  
nw/4, sec. 14, T. 18 N., R. 5 W.

Nanushuk Group

3,503 ft.  
3,514 ft.  
3,529 ft.

Torok Formation

4,667.4 ft.  
4,681 ft.  
4,689 ft.  
4,690.5 ft.  
4,694.5 ft.  
5,609 ft.  
6,585 ft.

"pebble shale unit"

7,525 ft.

Ivishak Formation

7,970 ft.  
7,973 ft.  
7,990 ft.  
7,993 ft.  
7,996 ft.  
7,996.5 ft.  
7,997.5 ft.  
8,072 ft.  
8,073 ft.  
8,074 ft.  
8,134 ft.  
8,137.5 ft.  
8,173.5 ft.  
8,194 ft.  
8,199 ft.

Permian Limestone

8,319 ft.  
8,331 ft.  
8,520 ft.  
8,534.5 ft.  
8,539.5 ft.

"argillite"

9,359 ft.

T.D. 9,367 ft.

North Kalikpik No. 1 (KAL #1)  
SW/4, sec. 3, T. 13 N., R. 2 W.

Torok Formation

3,812 ft.  
4,997 ft.  
5,871 ft.  
6,707 ft.

"pebble shale unit"

6,993.5 ft.  
6,996.2 ft.  
7,039 ft.  
7,052.5 ft.  
7,138 ft.

Kingak Formation

7,154.7 ft.  
7,162.5 ft.  
7,164 ft.  
7,166.5 ft.  
7,168.5 ft.  
7,206 ft.  
7,395 ft.

T.D. 7,395 ft.

Kugrua No. 1 (KUG #1)  
NW/4, sec. 8, T. 14 N., R. 26 E.

"pebble shale unit"

7,202 ft.

Sadlerochit Group

10,480 ft.  
10,487 ft.  
10,498 ft.  
10,503.5 ft.  
11,031 ft.

T.D. 12,588 ft.

South Meade No. 1 (S. MD #1)  
NW/4, sec. 31, T. 15 N., R. 19 W.

Torok Formation

3,010 ft.  
4,950 ft.  
4,958.6 ft.  
5,993 ft.  
6,002.5 ft.

Kingak Formation

7,503 ft.  
8,492 ft.  
8,498 ft.  
8,501 ft.  
8,507 ft.  
8,513 ft.

Sag River Formation

8,820.4 ft.  
8,823 ft.  
8,823.5 ft.  
8,835.2 ft.  
8,840.2 ft.  
8,847.1 ft.  
8,851.2 ft.  
8,852.1 ft.  
8,859.6 ft.  
8,864.7 ft.

Shublik Formation

8,896.6 ft.  
9,047.9 ft.  
9,307.6 ft.  
9,310 ft.  
9,311 ft.  
9,313.6 ft.  
9,314.6 ft.  
9,318.8 ft.  
9,324.7 ft.

T.D. 9,945 ft.

Oumalik No. 1 (OUM #1)  
SW/4, sec. 30, T. 6 N., R. 17 W.

Torok Formation

8,090.94 ft.  
8,284 ft.  
8,492 ft.  
8,691 ft.  
8,917 ft.  
9,537 ft.  
9,542 ft.  
9,544 ft.  
9,552 ft.  
9,825 ft.  
9,829 ft.  
9,840 ft.  
10,014 ft.  
10,019 ft.  
10,029 ft.  
10,233 ft.  
10,253 ft.  
10,453.73 ft.  
10,669 - 10,682 ft.

"pebble shale unit"

10,992 - 11,007 ft.  
11,852 - 11,872 ft.

T.D. 11,872 ft.

Peard No. 1 (PEA #1)  
NW/4, sec. 25, T. 16 N., R. 28 W.

Nanushuk Group

3,042 ft.  
3,044 ft.  
4,289 ft.

Torok Formation

5,413.8 ft.  
5,417 ft.  
5,419 ft.  
6,125.6 ft.

"pebble shale unit"  
6,408 ft.

Kingak Formation  
7,843.8 ft.  
7,848.5 ft.  
7,854.2 ft.  
7,859.8 ft.  
7,862.8 ft.  
7,866.7 ft.  
8,284.4 ft.

Sag River Formation  
8,451 ft.  
8,457.9 ft.  
8,473 ft.

Sadlerochit Group  
8,980 ft.  
8,993.7 ft.  
9,001.5 ft.  
9,498 ft.  
9,500.5 ft.  
9,505.4 ft.

"argillite"  
10,225

Seabee (SB)  
SE/4, sec. 5, T. 1 S., R. 1 W.

Torok Formation  
5,399 ft.  
10,072 ft.  
10,073.8 ft.  
10,088 ft.  
10,091 ft.  
10,095 ft.  
10,096.3 ft.  
12,012.8 ft.  
12,014.3 ft.  
12,037 ft.

Fortress Mountain Formation  
13,214 ft.  
13,224 ft.

"pebble shale unit"  
14,591 ft.

T.D. 15,611 ft.

Simpson No. 1 (SIMP #1)  
SW/4, sec. 32, T. 19 N., R. 13 W.

"pebble shale unit"  
5,464 ft.

Kingak Formation  
5,677 ft.  
5,684 ft.  
5,867.5 ft.

Sag River Formation  
6,183 ft.

Shublik Formation  
6,304 ft.  
6,316 ft.  
6,356 ft.  
6,485 ft.

"argillite"  
6,557 ft.  
6,796 ft.  
6,896 ft.  
7,002 ft.

T.D. 7,002 ft.

East Simpson No. 1 (E SIMP #1)  
NW/4, sec. 18, T. 18 N., R. 10 W.

Torok Formation  
2,679 ft.  
5,123 ft.  
5,129 ft.

Kingak Formation  
6,815 ft.  
6,817.6 ft.  
6,825 ft.  
6,828 ft.  
6,840.2 ft.  
6,850 ft.  
6,857.5 ft.

Sag River Formation  
6,898 ft.  
6,898.5 ft.  
6,902 ft.

Shublik Formation  
7,426 ft.  
7,436 ft.

Ivishak Formation  
7,499 ft.  
7,508 ft.

Endicott Formation  
7,565.5 ft.  
7,581 ft.  
7,588 ft.  
7,591 ft.

"argillite"  
7,729 ft.  
7,907.5 ft.

T.D. 7,739 ft.

East Simpson No. 2 (E SIMP #2)  
SE/4, sec. 23, T. 19 N., R. 11 W.

Nanushuk Formation  
2,380.5 ft.  
2,389 ft.  
2,399.5 ft.

Torok Formation  
6,059 ft.  
6,065 ft.  
6,073.5 ft.

"pebble shale unit"  
6,342 ft.  
6,366 ft.

Sag River Formation  
6,705.5 ft.  
6,726.5 ft.  
6,733 ft.

Sadlerochit Group  
7,167 ft.  
7,174 ft.  
7,174.5 ft.  
7,182 ft.  
7,182.3 ft.  
7,186.5 ft.

Endicott Group  
7,190.5 ft.  
7,191.2 ft.  
7,196 ft.  
7,201.2 ft.  
7,203 ft.  
7,221.5 ft.  
7,253 ft.  
7,259 ft.  
7,268 ft.  
7,297 ft.  
7,310 ft.  
7,324.5 ft.  
7,331 ft.  
7,346 ft.

T.D. 7,505 ft.

Square Lake No. 1 (SQ. L #1)  
cen E/2, sec. 2, T. 2 N., R. 6 W.

Prince Creek Formation  
239 ft.  
245 ft.  
264 ft.  
271 ft.  
469 ft.  
517 ft.  
527 ft.  
532 ft.  
570 ft.  
577 ft.  
588 ft.  
608 ft.  
612.5 ft.  
634 ft.  
651 ft.  
667 ft.

Seabee Formation  
705 ft.  
706 ft.  
943 ft.  
955 ft.  
1,084 ft.  
1,655.5 ft.  
1,664.5 ft.  
1,702 ft.  
1,713 ft.  
1,731 ft.  
1,745.5 ft.  
1,818 ft.  
1,822 ft.  
1,841 ft.

Nanushuk Group  
1,940 ft.  
1,940.5 ft.  
1,943 ft.  
2,063 ft.  
2,849 ft.  
3,027 ft.  
3,058 ft.  
3,103 ft.  
3,239 ft.  
3,259 ft.  
3,279 ft.

T.D. 3,987 ft.

Topagoruk No. 1 (TOP #1)  
NE/4, sec. 25, T. 15 N., R. 16 W.

Torok Formation  
6,510 ft.

"pebble shale unit"  
6,849 ft.  
6,859 ft.

Kingak Formation  
7,805 ft.  
7,831.5 ft.  
7,847 ft.  
8,106 ft.

Ivishak Formation  
9,416 ft.  
9,432 ft.  
9,434.5 ft.  
9,435 ft.  
9,450 ft.  
9,469.7 ft.  
9,490 ft.  
9,425 ft.  
9,440 ft.  
9,445.2 ft.  
9,507 ft.  
9,510 ft.  
9,516 ft.  
9,517 ft.  
9,519 ft.  
9,521.5 ft.  
9,537 ft.  
9,538 ft.  
9,541 ft.  
9,555 ft.  
9,567 ft.

**Kavik Formation**

9,585.5 ft.  
 9,592.5 ft.  
 9,597 ft.

**Echooka Formation**

9,816 ft.

**"argillite" (M. Devonian)**

10,228

T.D. 10,503 ft.

**Tunalik (TUN)**

SE/4, sec. 20, T. 10 N., R. 36 W.

**Nanushuk Formation**

3,284 ft.  
 3,288.5 ft.  
 3,296 ft.  
 3,308 ft.  
 3,825.3 ft.  
 5,557.6 ft.  
 5,559.5 ft.  
 5,561 ft.

**Torok Formation**

6,507 ft.  
 6,510 ft.  
 7,870 ft.  
 7,877 ft.  
 8,787.4 ft.  
 8,795 ft.  
 8,803 ft.  
 8,808.5 ft.  
 10,472 ft.  
 10,490 ft.  
 10,496 ft.  
 10,502 ft.

**"pebble shale unit"**

10,674 ft.  
 10,680 ft.  
 10,687.5 ft.  
 10,701 ft.  
 10,910 ft.  
 10,922 ft.  
 10,928 ft.  
 10,934 ft.  
 10,935 ft.  
 10,936.5 ft.  
 10,937 ft.  
 10,940 ft.  
 11,678 ft.  
 11,684 ft.  
 11,690 ft.  
 11,693 ft.  
 12,573 ft.  
 12,574.2 ft.  
 12,577 ft.  
 12,582 ft.  
 12,583 ft.  
 12,585 ft.  
 12,588 ft.  
 12,591 ft.

**Ivishak Formation**

14,847 ft.  
 14,855 ft.  
 15,411 ft.  
 15,420 ft.  
 15,421 ft.  
 15,427 ft.

**Kavik Shale**

16,237 ft.  
 16,240 ft.  
 16,255 ft.  
 16,260 ft.

**Echooka Formation**

16,931 ft.  
 16,943 ft.  
 16,949 ft.

T.D. 20,336 ft.

**Walakpa No. 1 (WAL #1)**

SE/4, sec. 9, T. 20 N., R. 19 W.

**Torok Formation**

257 ft.  
 273 ft.

**Kingak Formation**

1,844 ft.  
 1,864.5 ft.  
 1,882 ft.  
 1,983 ft.  
 2,009 ft.  
 2,020 ft.  
 2,025.6 ft.  
 2,061 ft.  
 2,062.5 ft.  
 2,063.3 ft.  
 2,064.8 ft.  
 2,066 ft.  
 2,069 ft.  
 2,070 ft.  
 2,071 ft.  
 2,074 ft.  
 2,077 ft.  
 2,081 ft.  
 2,084 ft.  
 2,087 ft.  
 2,090.5 ft.  
 2,093 ft.  
 2,096 ft.  
 2,099 ft.  
 2,100 ft.  
 2,102 ft.  
 2,105 ft.  
 2,108 ft.  
 2,111 ft.  
 2,810 ft.  
 2,937 ft.  
 2,961.5 ft.  
 2,985 ft.  
 2,992 ft.  
 3,017.5 ft.

**"Barrow Sand"**

3,060 ft.  
 3,091 ft.

**Shublik Formation**

3,371.5 ft.  
 3,394.5 ft.  
 3,397 ft.  
 3,405.4 ft.

**"argillite"**

3,666 ft.

T.D. 3,666 ft.

**Walakpa No. 2 (WAL #2)**

NE/4, sec. 31, T. 20 N., R. 19 W.

**"pebble shale unit"**

2,611 ft.  
 2,614 ft.  
 2,617 ft.  
 2,620 ft.  
 2,623.5 ft.  
 2,626 ft.  
 2,629 ft.  
 2,632 ft.  
 2,635 ft.  
 2,638 ft.

**Kingak Formation**

2,639 ft.

T.D. 4,360 ft.

The availability of other thin-sections from rocks and cores in the National Petroleum Reserve in Alaska is announced in the following reports.

- (a) Bowsher, A. L., and Tailleux, I. L., 1981, Availability of cores and cuttings and thin-sections from Ellesmerian strata of 16 test wells of National Petroleum Reserve in Alaska: U.S. Geological Survey, Open-File Report No. 81-
- (b) Bowsher, A. L., and Tailleux, I. L., 1981, Availability of petrographic thin-sections from the Fortress Mountain Formation, Central North Slope, Alaska: U.S. Geological Survey, Open-File No. 81-1094.
- (c) Tailleux, I. L., Gibson, H. A., and Morin, R. C., 1981, Availability of petrographic thin-sections from Lisburne Test Well No. 1 and comments by I. L. Tailleux on the relation of this well to strata exposed hereby in the Brooks Range: U.S. Geological Survey, Open-File Report No. 81-

Figure 1.- Location of wells for which thin-sections are available. O.F. 81-



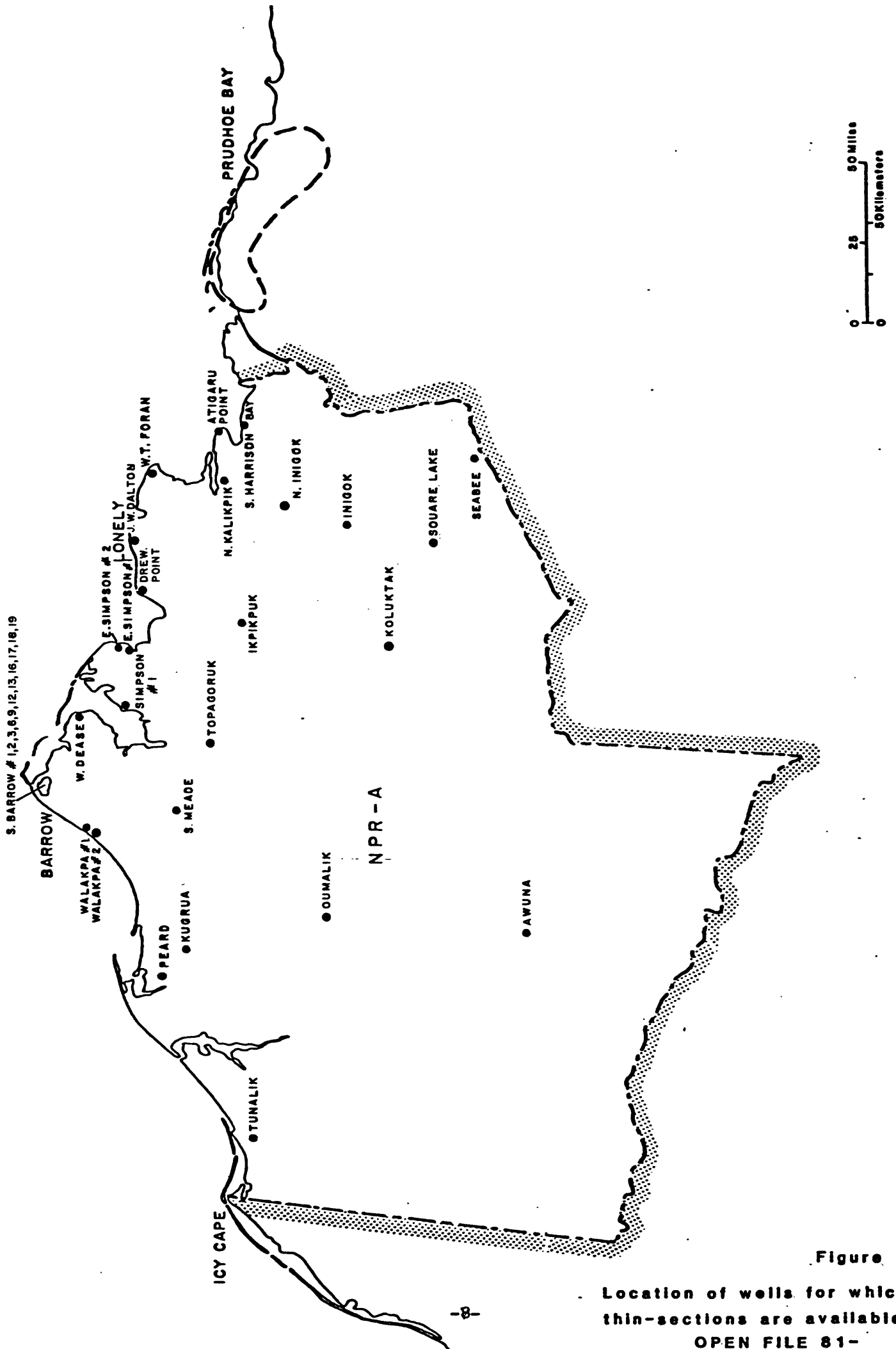


Figure 1

Location of wells for which thin-sections are available.

OPEN FILE 81-