

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AVAILABILITY OF CORES AND CUTTINGS AND PETROGRAPHIC
THIN-SECTIONS FROM THE ELLESMERIAN STRATA OF 16 TEST WELLS
OF NATIONAL PETROLEUM RESERVE IN ALASKA
(WITH FIGURE 1)

by

Arthur L. Bowsher and Irvin L. Tailleir

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

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Figure 1.-wells for which thin-section slides are available-O.F. 81-

Cores and cuttings from wells drilled in the exploration of the National Petroleum Reserve in Alaska (NPRO), 1974-1981, are available for non-destructive examination at the NPRO core storage "facility" in Anchorage. Thin-sections from selected intervals of the wells are prepared in the course of studies conducted by employees of the U.S. Geological Survey and others authorized by contract to study the material. These thin-sections are being made available to the public in open-file as expeditiously as possible.

A single set of 99 thin-sections for 16 wells in NPRO, prepared by Peter Van de Kamp (NOAA 1980 release (SE-FF)), is presently available for study (Figure 1)). The set will be sent out on three-week loan in the order that 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 loans 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

The thin-sections in this set are as follow: thin-sections of cores are marked by *. Unmarked slides are prepared from drill cuttings. Stratigraphic names are used only for the 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).

Reference

Van de Kamp, P. C., 1979, Stratigraphy and Diagenetic Alteration of Ellesmerian Sequence Siliciclastic Rocks, North Slope, Alaska: U.S. Geological Survey contract 14-08-0001-16789-NOAA, 1980 release (SE-FF), p. 1-56, figs. 1-25, table 1-5.

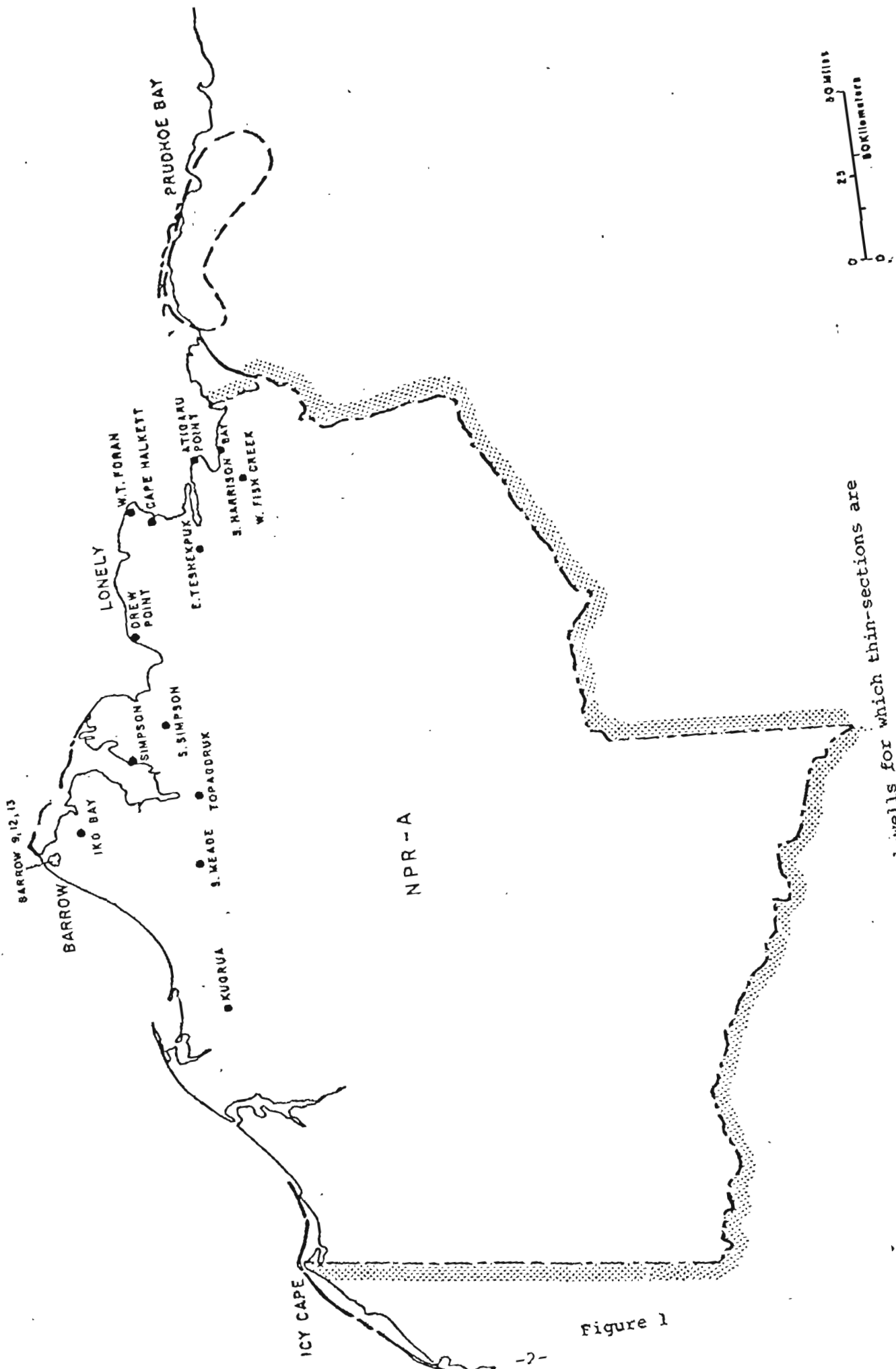


Figure 1-wells for which thin-sections are available.

Figure 1

Atigaru Point No. 1 (AP) ^{1/}

ne/4, sec. 19, T. 14 N., R. 2 E.

Sag River Sandstone

8250-8280

8290-8230

Shublik Formation

8570-8610

Ivishak Formation

8630-8650

8670-8700

*8712-8713

*8723-8724

*8731

*8740-8741

8760-8790

8810-8840

8870-8890

8940-8970

8980-9010

9160-9190

Echooka Formation

9410-9440

*9450

T.D. 11,535 ft.

South Barrow No. 9 (SB 9)

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

"pebble shale unit"

*2366

*2376

"Barrow Sand"

*2381-2382

*2405-2406

*2423

*2438

*2444-2445

T.D. 2,450 ft.

South Barrow No. 12 (SB 12)

se/4, sec. 23, T. 22 N., R. 17 E.

"Barrow Sand"

*2013

*2037

*2040

*2045-2046

Sag River Sandstone

*2207

Shublik Formation

*2210

*2226

*2230-2231

*2239

*2245

*2247

*2257-2258

2263

"Argillite"

*2268

T.D. 2,283 ft.

South Barrow No. 13 (SB 13)

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

"pebble shale unit"

*2177

*2183.75

Kingak Formation

*2290-2291

*2313

"Barrow Sand"

*2321

*2328

*2344

Sag River Sandstone

*2414

*2419

T.D. 2,490 ft.

^{1/} Abbreviation for the well used on thin sections

Drew Point No. 1 (DP)

se/4, sec. 26, T. 18 N., R. 8 W.

Sag River Sandstone
*6979.5

Shublik Formation
*7544
*7559

Ivishak Formation
*7590.8
*7610
*7611.5
*7710
*7721

Endicott Group
*7793
*7801
*7813

T.D. 7,938 ft.

West Fish Creek No. 1 (WFC)

ne/4, sec. 11, T. 11 N., R. 1 W.

Kingak Formation
7520-7550

Sag River Sandstone
9250-9270

Ivishak Formation
9680-9710
9760-9790
9840-9880
9960-9980
10030-10050

T.D., 11,427 ft.

W. T. Foran No. 1 (WTF)

nw/4, sec. 13, T. 17 N., R. 2 W.

"pebble shale unit"

7520-7540
*7539-7540

Shublik Formation
*7544-7545
*7549-7550
*7554-7555
*7557

Ivishak Formation

7640-7670
7700-7730
7800-7830
7890-7920
7980-8010
8070-8100

T.D. 8,864 ft.

Cape Halkett No. 1 (CH)

sw/4, sec. 5, T. 16 N., R. 2 W.

Kingak Formation
7600-7630

Sag River Sandstone
7840-7870

Ivishak Formation
8170-8200
8250-8290
8340-8370
8440-8470
8550-8580
8620-8650

T.D. 9,900 ft.

South Harrison Bay No. 1 (SHB)

nw/4, sec. 6, T. 12 N., R. 2 E.

Sag River Sandstone
8900-8930
8940-8960

Ivishak Formation
9260-9300
9310-9360
9450-9510
9530-9580
9590-9620
9630-9670
9680-9720
9750-9770
9810-9850
9860-9900
9910-9930

T.D. 11,296 ft.

Iko No. 1 (Iko Bay)

ne/4, sec. 16, T. 21 N., R. 16 W.

"Barrow Sand"

- *2345
- *2356-2357
- *2363
- *2417.5
- *2430

T.D. 2,731 ft.

Kugura No. 1 (Ku)

nw/4, sec. 8, T. 14 N., R. 6 E.

Kingak Formation

- 7210-7300
- 8730-8810

Sag River Sandstone

- *9543
- 9590-9600

Ivishak Formation

- *10,484
- *10,498
- 10,750-10,770

T.D. 12,588 ft.

South Meade No. 1 (SM)

nw/4, sec. 31, T. 15 N., R. 19 W.

"pebble shale unit"

- *6722

Sag River Sandstone

- *7870
- *7900
- *7961

T.D. 9,945 ft.

Simpson No. 1 (S)

sw/4, sec. 32, T. 19 N., R. 13 W.

Sag River Sandstone

- *6175
- *6190

T.D. 7,002 ft.

South Simpson No. 1 (SS)

se/4, sec. 22, T. 17 N., R. 12 W.

Kingak Formation

- 6530-6600
- 6640-6670
- 6750-6820

Sag River Sandstone

- 7480-7530
- 7540-7580
- 7590-7630
- 7640-7690

Shublik Formation

- 8210-8220

Ivishak Formation

- 8240-8280
- 8300-8340
- 8360-8400
- 8410-8460
- 8510-8560

Endicott Group

- *8650
- *8660
- *8670
- *8680
- *8690
- 8710-8720
- 8730-8740

T.D. 8,795 ft.

East Teshekpuk No. (ET)

nw/4, sec. 16, T. 14 N., R. 4 W.

Kingak Formation

- 7130-7210
- 7220-7290

Sag River Sandstone

- 8560-8610
- 8620-8670

Shublik Formation

- 8750-8800
- 8810-8870

Ivishak Formation

- 8960-8970
- 8990-9020
- 9050-9080
- 9120-9160
- 9190-9240
- 9260-9280
- 9320-9360
- 9370-9410
- 9420-9450

T.D. 10,654 ft.

Topagoruk T.W. No. 1 (To)

Kingak Formation

- *7835

Ivishak Formation

- 9416-9426

T.D. 10,503 ft.