

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. Tailleux

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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 (NPRA), 1974-1981, are available for non-destructive examination at the NPRA 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 NPRA, 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:

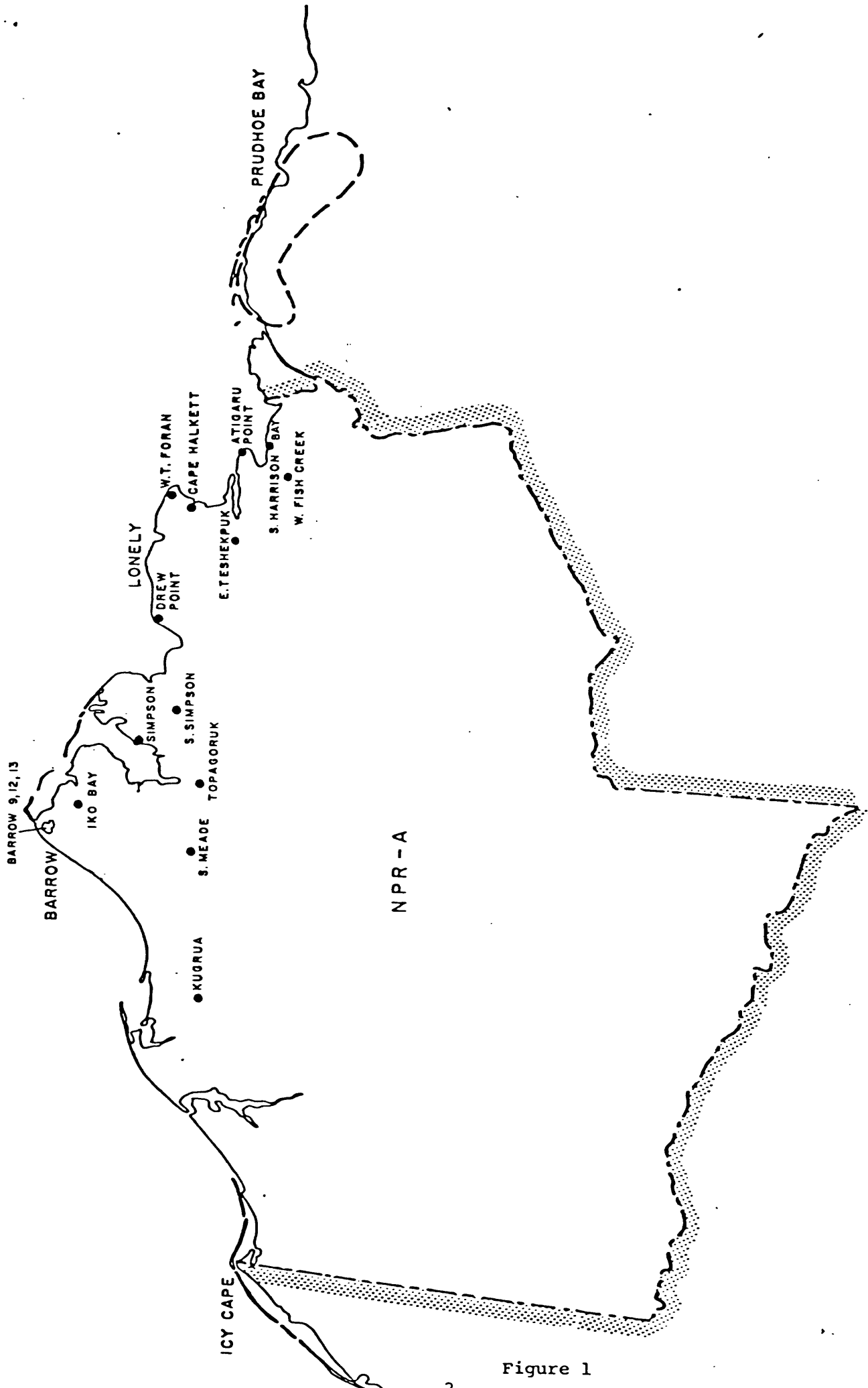
Requests for loans should be sent to:

I. L. Tailleir
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.