

OF 381

PROPERTY OF U.S. GEOLOGICAL SURVEY

REC'D. COLLEGE

JUL 28 1969

DIV. MINES & GEOLOGY

U. S. GEOLOGICAL SURVEY

OPEN-FILE REPORT

Availability of petrographic thin-section slides from

Naval Petroleum Reserve No. 4:

Simpson Test Well No. 1

South Barrow Test Well No. 3

Topagoruk Test Well No. 1

by

George Gryc and I. L. Tailleux

Menlo Park, California

This report has not been edited or reviewed
for conformity with U. S. Geological Survey
standards of nomenclature

Availability of petrographic thin-section slides from Naval Petroleum
Reserve No. 4: Simpson Test Well No. 1, South Barrow
Test Well No. 3, and Topagoruk Test Well No. 1

George Gryc and I. L. Tailleux

Numerous requests have been received from industry and others to examine petrographically the rocks cored during the U.S. Navy's exploration of Petroleum Reserve No. 4 in northern Alaska. These cores have been available for megascopic study at Fairbanks, Alaska, but destructive analyses or the taking of "cuts" has not been permitted. To meet the need to examine these rocks microscopically the U.S. Geological Survey has prepared a set of thin section slides primarily from the pre-Cretaceous rocks in three test wells in the northern part of NPR-4.

A single set of slides, from the depths listed below, has been cut for Simpson No. 1, South Barrow No. 3, and Topagoruk No. 1 Test Wells. Depending on the slides being available, they and the rock chips may be borrowed for short-term petrographic study on request to: George Gryc, Chief, Alaskan Geology Branch, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025.

The following thin sections have been cut from cores at the apparent depth listed. Most of the samples were collected from the cores stored in the Fairbanks, Alaska, warehouse by I. L. Tailleux and W. P. Brosgé in December 1968.

Information on the wells is published in:

Robinson, F. M., 1959b, Test wells, Simpson area, Alaska: U.S. Geol. Survey Prof. Paper 305-J, p. 523-568, 4 pls., 5 figs.

Collins, F. R., 1961, Core test and test wells, Barrow area, Alaska: U.S. Geol. Survey Prof. Paper 305-K, p. 569-644, 5 pls., 3 figs.

Collins, 1958b, Test wells, Topagoruk area, Alaska: U.S. Geol. Survey Prof. Paper 305-D, p. 265-309, 2 pls., 4 figs.

Barrow 3SimpsonTopagoruk

Bar 3 - 1221	S - 5084-87 ft.	Topag - 6482
Bar 3 - 2408	S - 5303-08	Topag - 6483
Bar 3 - 2413.2	S - 5470	Topag - 6504
Bar 3 - 2445	S - 5473	Topag - 7042
Bar 3 - 2489	S - 5680	Topag - 7807
Bar 3 - 2529.5	S - 5867	Topag - 7813
Bar 3 - 2549	S - 6068	Topag - 7828
Bar 3 - 2613	S - 6177	Topag - 7838
Bar 3 - 2615	S - 6181	Topag - 8106
Bar 3 - 2621	S - 6239.5	Topag - 8632
Bar 3 - 2626	S - 6240	Topag - 8917-21
Bar 3 - 2627	S - 6241.2	Topag - 9416-26
Bar 3 - 2630	S - 6307	Topag - 9426-28
Bar 3 - 2631	S - 6321	Topag - 9436
Bar 3 - 2633	S - 6350	Topag - 9453
Bar 3 - 2635	S - 6379	Topag - 9455
Bar 3 - Core #57?	S - 6456	Topag - 9499
Bar 3 - 2639	S - 6465	Topag - 9507
Bar 3 - 2643.5	S - 6490.5	Topag - 9507
Bar 3 - 2645	S - 6491.2	Topag - 9520
Bar 3 - 2647	S - 6495	Topag - 9522
Bar 3 - 2651.5	S - 6545.5	Topag - 9524
Bar 3 - 2656.5	S - Core #245	Topag - 9532
Bar 3 - 2667		Topag - 9543
Bar 3 - 2677		Topag - 9541-45
Bar 3 - 2681.5		Topag - 9547
Bar 3 - 2690.5		Topag - 9551
Bar 3 - 2700		Topag - 9585
Bar 3 - 2704.5		Topag - 9590
Bar 3 - 2712.5		Topag - 9594
Bar 3 - 2720		Topag - 9815
Bar 3 - 2727		Topag - 9817
Bar 3 - 2728.5		Topag - 9818
Bar 3 - 2729		Topag - Core #83
Bar 3 - 2731		Topag - Core #85
Bar 3 - 2737		Topag - 9999-10,087
Bar 3 - 2752-61		Topag - 9999-10,228
Bar 3 - 2761.9		Topag - 9999-10,387
Bar 3 - 2768		Topag - 9999-10,393
Bar 3 - 2771		Topag - 9999-10,411
Bar 3 - 2778.2		Topag - 9999-10,441
Bar 3 - 2787		Topag - 9999-10,503
Bar 3 - 2796		
Bar 3 - 2797.5		
Bar 3 - 2799		
Bar 3 - 2850		