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GEOLOGICAL SURVEY

Geologic bibliography for selected onshore sedimentary basins of
central and southern Alaska stressing basin analysis and including
an index of publicly available well and subsurface data

By

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Open-File Report
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This report is preliminary and has not been edited or
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INTRODUCTION

The aim of this bibliography is to present those references pertaining to the geologic origin, nature, and extent of selected onshore basins of Alaska. We have assembled this bibliography as an initial part of an ongoing oil and gas evaluation project for the interior of Alaska. As such, this is not a complete listing of the literature available for interior Alaska, but rather is limited to those references pertaining specifically to basin analysis.

Widespread bibliographies exist for Alaska, and certain bibliographies for selected basins; however, we have designed this one to be more specific in both scope and extent. This bibliography was produced mainly by selecting references from existing Alaskan bibliographies. Bibliographies are available for selected basins of central Alaska and include the Copper River and mid-Tanana (Nenana) basins (Emmel and Coonrad, 1982) and the Susitna basin (Merritt and others, 1982). However, the bulk of the references for this bibliography came from more general bibliographies covering wide areas of the state and a variety of subjects. These included: (Alaska Geology Branch, unpublished reports, 1978-1983; Cobb, E. H., 1974a-f, 1975, 1976, 1977, 1978, 1979a-c; Fritts and Brown, 1971a-d; Fritts and Tuell, 1972; Fritts and others, 1972). In addition to these we reviewed information lists for specific organizations including the Alaska Division of Geological and Geophysical Surveys lists of reports and the Bureau of Mines Publications for Alaska.

We have defined eleven onshore basins in central Alaska and four onshore basins in southern Alaska. This bibliography covers all the basins from central Alaska and includes both Susitna and Copper River basins from southern Alaska (Fig. 1). The basins range from partially explored, those basins having limited geophysical exploration and limited exploratory

dripping, to virtually unexplored basins. The former includes the Bethel, Copper River, Galena, Nenana, Selawik, Sustna, and Yukon Flats/Kandik basins and the latter the Innoko, Holitna, Minchumina, Ruby, and Northway basins. For many of the interior basins of Alaska a common origin and age is theorized (Grantz and Kirschner, 1975). The majority of the basins are distinctly linear, juxtaposed to the major strike-slip faults of Alaska, and are dominated by Tertiary sedimentary fill. Utilizing a Cook Inlet basin analogy and given the proper tectonic and depositional setting the interior onshore basins could hold petroleum potential. In addition to oil and gas potential the basins may contain economic quantities of uranium, coal, and non-fuel minerals. Although at a preliminary stage, the aim of our study is to delineate, analyze, and assess these basins through detailed mapping, paleontology, geophysical exploration, state-of-the-art geochemistry, and regional tectonic analyses.

The organization of this bibliography is by basins in alphabetical order. Under each basin heading is a general section that lists those references dealing with the framework geology, stratigraphy, and local and regional tectonics. The second section, where appropriate, is a listing of publicly obtainable well and subsurface data which is archived by the State of Alaska in Anchorage.

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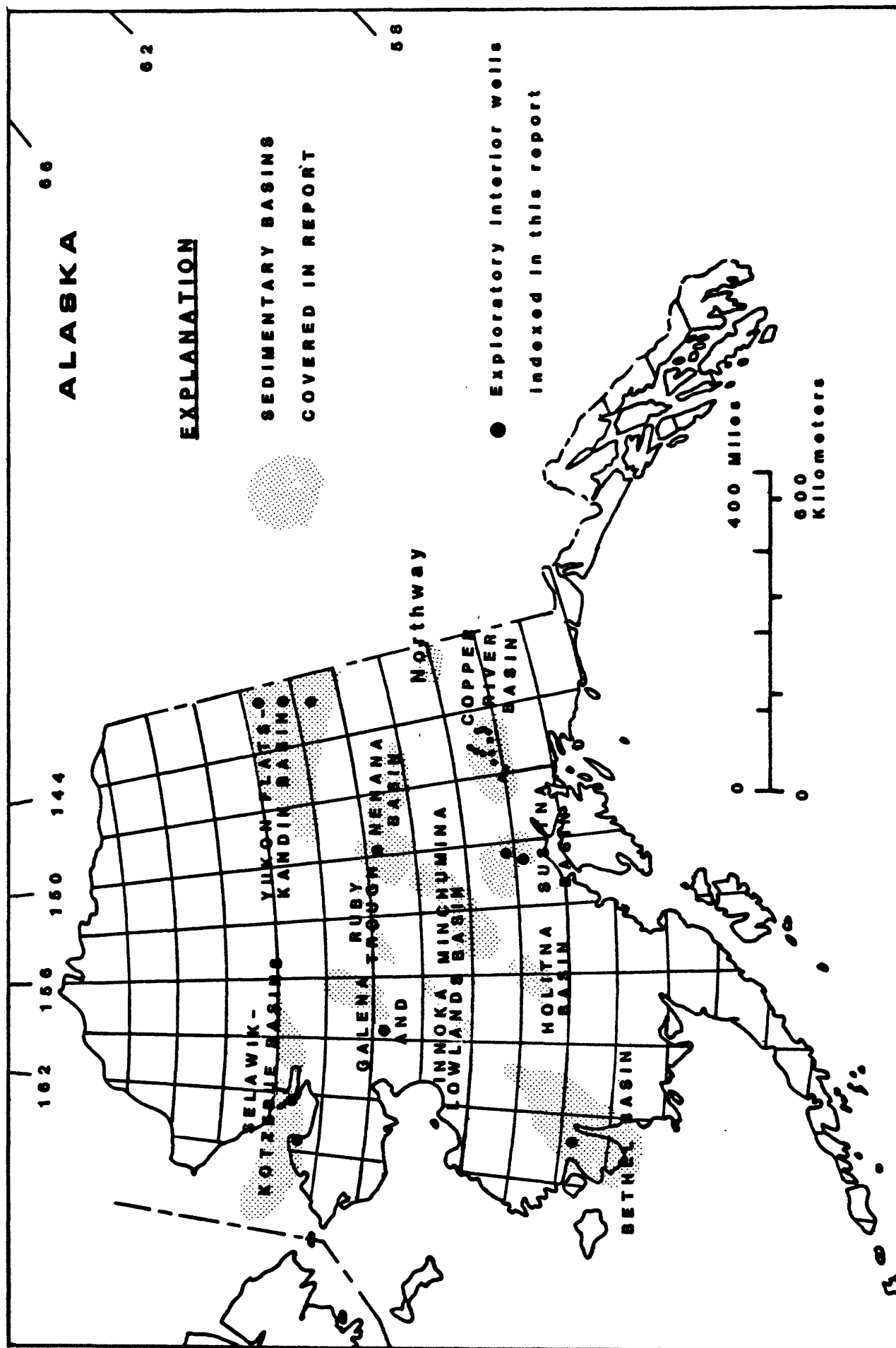


FIGURE 1. - Index map of the sedimentary basins and exploratory wells covered by this report.

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B. Publicly available well/subsurface data:

Terminated Development Contracts: (Reports available from U.S. Geological Survey Public Inquiries Office, Room 108, Skyline Building, 508 2nd Avenue, Anchorage, Alaska 99510.

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<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Pan American Petroleum Corporation	#1 Napatuk Creek	7N/78W/sec. 34	14,910	10/1/61	yes	yes	pyrolysis - fluorescence and vitrinite reflectance studies Biostratigraphy, visual kerogen analysis, and thermal maturation studies	palynology slides TAI/kerogen slides thin-sections of ditch spls. thin-sections of core chips vitrinite reflectance slides/plugs

1. Examination of slides and samples at the Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99501.

2. Reports and logs available from Petroleum Information, P.O. Box 10-2778, Anchorage, Alaska 99510.

COPPER RIVER BASIN

A. General

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B. Publicly available well/subsurface data:

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Union Oil Company of California, 1966, Crosswind Development Contract, Copper River Basin, Alaska: (geologic report, structure contour map, stratigraphic section sample description).

Well data:

<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Aledo Oil Company	Eureka #1	2N12E/sec. 9	4,818	10/3/56	yes	no		
Aledo Oil Company	Eureka #2	2N/10W/sec. 18	8,546	5/6/63	yes	yes		
Amoco Production Co.	Ahtna #1	6N/1W/sec. 18	7,928	4/16/80	yes	yes		
Amoco Production Co.	Ahtna #A-1	5N/1W/sec. 28	5,677	8/6/80	yes	yes	Carbon isotope analysis Magnetic suscep- tibility analysis	Foram. slides paly. slides
Atlantic Refining Co.	Rainbow #1	8N/5W/sec. 31	3,000	12/19/65	yes	yes		
Atlantic Refining Co.	Rainbow #2	8N/5W/sec. 1	2,795	1/26/66	yes	yes		
Consolidated Allied & Embassy, Miami	Tawawe Lake Unit #1	4N/8W/sec. 24	6,721	1/17/70	yes	yes		Foram. slides paly. slides
Copper Valley Machine Works	Alicia #1	4N/4W/sec. 22?	?	?	no	no		
Mobil Oil Company	Salmonberry Lake #1	6N/6W/sec. 24	7,912	3/14/64	yes	yes		
Pan American Oil Corp.	Moose Creek #1	4N/3W/sec. 29	7,867	3/15/63	yes	yes	paleontological report	thin-section of ditch samples
Union Oil Co. of Calif.	Tazlina #1	4N/7W/sec. 10	8,837	10/29/62	yes	yes		

1. Examination of slides and samples at Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

2. Reports and logs available from Petroleum Information, P.O. Box 10-2278, Anchorage, Alaska 99510.

GALENA/INNOKO LOWLANDS

A. General

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B. Publicly available well/subsurface data:

Well data:

<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Paul G. Benedum and others	Nulato Unit #1	10S/1E/sec. 12 (Kateel River meridian)	12,015	5/27/60	yes	yes	Visual kerogen and thermal maturation (vitrinite reflectance) Analysis	Foram. slides Paly. slides Nannoplankton slides thin-sections of core chips thermal altera- tion/kerogen slides. Vitrinite reflectance slides/plugs

1. Examination of slides and samples at the Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

2. Reports and logs available from Petroleum Information, P.O. Box 10-2278, Anchorage, Alaska 99510.

HOLITNA BASIN

A. General

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<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Other available data</u>	
							<u>Reports(2)</u>	<u>Other(1)</u>
Union Oil Co. of Calif.	Nenana #1	4S/10W/sec. 7	3,062	3/6/62	yes	yes	-	thin-section of ditch samples

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1. Examination of slides and samples at Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

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B. Publicly available well/subsurface data:

Well data:

<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Standard Oil Company of California	Cape Epsenberg #1	12N/25W/sec. 25	8,373		yes	yes	Visual Kerogen, thermal maturation, (vitrinite reflectance) TOC and Rock Eval. Pyrolysis Analysis Isotopic Age Dating	Foram. slides Paly. slides Nanno. slides Siliccas microfossil slides TAI/Kerogen slides Vitrinite/ reflectance slides/plugs
Standard Oil Company of California	Nimiuk Point #1	16N/16W/sec. 34	6,311		yes	yes	Visual Kerogen, thermal maturation, (vitrinite reflectance) TOC and Rock Eval. Pyrolysis Analysis Isotopic Age Dating Mineral Analysis	Foram. slides Paly. slides Nanno. slides Siliceous microslides TAI/Kerogen slides Vitrinite reflectance slides/plugs

1. Examination of slides and samples at the Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

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B. Publicly available well/subsurface data:

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Well data:

<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date completed</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Union Oil Company of California	Trail Ridge Unit #1	T20N/R10W/ sec. 9	13,708'	12/13/80	yes	yes	-	-
Union Texas Petroleum Co	Pure Kahiltna River State #1	T23N/R8W/ sec. 33	7,265'	3/10/64	yes	yes	-	-

1. Examination of slides and samples at the Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

2. Reports and logs available from Petroleum Information, P.O. Box 10-2278, Anchorage, Alaska 99510.

YUKON FLATS/KANDIK BASIN

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B. Publicly available well/subsurface data:

Well data:

<u>Company</u>	<u>Well Name</u>	<u>Location</u>	<u>T.D. (feet)</u>	<u>Date spud</u>	<u>Logs(2) available</u>	<u>Well(1) samples</u>	<u>Reports(2)</u>	<u>Other(1)</u>
Louisiana Land and Exploration Company	Doyon Ltd. #1 (43-32)	10N/27E/sec. 32	11,044	2/17/76	yes	yes	-	-
Louisiana Land and Exploration Company	Doyon Ltd. #2 (14-31)	16N/28E/sec. 31	9,123	2/28/77	yes	yes	-	-
Louisiana Land and Exploration Company	Doyon Ltd. #3 (12X-20)	23N/28E/sec. 20	13,533	5/31/77	yes	yes	-	-

1. Examination of slides and samples at the Alaska Oil and Gas Conservation Commission, 3001 Porcupine Drive, Anchorage, Alaska 99510.

2. Reports and logs available from Petroleum Information, P.O. Box 10-2278, Anchorage, Alaska 99510.