

nanushuk formation brookian topset play alaska north slope

[#Nanushuk Formation](#) [#Brookian Topset Play](#) [#Alaska North Slope](#) [#Arctic Oil Exploration](#) [#Petroleum Geology Alaska](#)

Explore the geological significance of the Nanushuk Formation, a prominent sedimentary unit integral to the Brookian Topset Play on Alaska's North Slope. This formation represents a crucial target for petroleum geology and arctic oil exploration, contributing significantly to the region's energy potential.

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Beaufort Sea Planning Area Proposed 1996 Oil and Gas Lease Sale 144, Alaska Outer Continental Shelf (OSC)

This book is a comprehensive guide to the natural history of the North Slope, the only arctic tundra in the United States. The first section provides detailed information on climate, geology, landforms, and ecology. The second provides a guide to the identification and natural history of the common animals and plants and a primer on the human prehistory of the region from the Pleistocene through the mid-twentieth century. The appendix provides the framework for a tour of the natural history features along the Dalton Highway, a road connecting the crest of the Brooks Range with Prudhoe Bay and the Arctic Ocean, and includes mile markers where travelers may safely pull off to view geologic formations, plants, birds, mammals, and fish. Featuring hundreds of illustrations that support the clear, authoritative text, *Land of Extremes* reveals the arctic tundra as an ecosystem teeming with life.

Alaska Outer Continental Shelf, Beaufort Sea Planning Area Sales 186, 195, and 202, Oil and Gas Lease Sale

This book demystifies that art and science of seismic interpretation for those with and without formal geophysical training. From geologists to managers and investors, *The Art and Science of Seismic Interpretation* is a guide to what seismic data is, how it is interpreted, and what it can deliver.

Northeast National Petroleum Reserve-Alaska (NPR-A)

Geological literature on the arctic region north of 68 degrees N latitude in Alaska published prior to November 1, 1969. Includes most oceanographic reports on the adjacent continental shelf, but only a few on adjacent Yukon Territory.

Land of Extremes

The Sedimentary Basins of the United States and Canada, Second Edition, focuses on the large, regional, sedimentary accumulations in Canada and the United States. Each chapter provides a succinct summary of the tectonic setting and structural and paleogeographic evolution of the basin it covers, with details on structure and stratigraphy. The book features four new chapters that cover the sedimentary basins of Alaska and the Canadian Arctic. In addition to sedimentary geologists, this updated reference is relevant for basin analysis, regional geology, stratigraphy, and for those working in the hydrocarbon exploration industry. Features updates to existing chapters, along with new chapters on sedimentary basins in Alaska and Arctic Canada. Includes nearly 300 detailed, full-color paleogeographic maps. Written for general geological audiences and individuals working in the resources sector, particularly those in the fossil fuel industry.

Preliminary Geologic, Petrologic, and Paleontologic Results of the Study of Nanushuk Group Rocks, North Slope, Alaska

The purpose of the core workshop is to provide an opportunity to examine a large collection of core from all major stratigraphic units present in NPRA. The chapters in this volume provide a current perspective on the genesis and petroleum potential of each stratigraphic interval.

The Art and Science of Seismic Interpretation

Over the past two decades there has been increased interest in the availability of hydrocarbon charge through a better understanding of petroleum geochemistry and the identification and characterization of petroleum source rocks. These rocks are geochemically unique and form under specific sets of circumstances. This book brings together both geologic and geochemical data from fifteen petroleum source rocks, ranging in age from Devonian to Eocene, that would otherwise be widely dispersed in the literature or available only in proprietary corporate databases. Much of this information, presented in either a tabular or graphic fashion, provides the petroleum explorationist and the geochemist with a framework to establish relationships among various geochemical indices and depositional settings.

Brookian Sequence Well Log Correlation Sections and Occurrence of Gas Hydrates, North-central North Slope, Alaska

The Frontiers in Sedimentary Geology series was established for the student, the researcher, and the applied scientist to enhance their potential to stay abreast of the most recent ideas and developments and to become familiar with certain topics in the field of sedimentary geology. This series deals with subjects that are in the forefront of both scientific and economic interests. The treatment of a subject in an individual volume, therefore, should be a combination of topical, regional, and interdisciplinary approaches. The interdisciplinary aspects are becoming more and more important because most studies dealing with the natural sciences cannot effectively stand alone. Although this thrust may sound simple, in reality it is not, basically because each discipline has developed its own jargon and definitions or terms. Communication among disciplines is a major issue and can be accomplished more constructively when people with different backgrounds join together at the same symposium and can read from the same volume rather than confining themselves within the world of their own specialty meetings and journals. Books in this series provide this connective link between disciplines. Each book in this series provides a continuous and connected flow of concepts throughout the volume by the use of introductory chapters that outline a topic to help the reader grasp its problems and to understand the contributions that follow.

Short Notes on Alaskan Geology

Seismic attributes play a key role in exploration and exploitation of hydrocarbons. In Seismic Attributes for Prospect Identification and Reservoir Characterization (SEG Geophysical Developments No. 11), Satinder Chopra and Kurt J. Marfurt introduce the physical basis, mathematical implementation, and geologic expression of modern volumetric attributes including coherence, dip/azimuth, curvature, amplitude gradients, seismic textures, and spectral decomposition. The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing. Examples from different basins illustrate the attribute expression of tectonic deformation, clastic depositional systems, carbonate depositional systems and diagenesis, drilling hazards, and reservoir characterization. The book is illustrated generously with color figures throughout. "Seismic Attributes" will appeal to seismic interpreters who want to extract more information from data; seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays; sedimentologists, stratigraphers,

and structural geologists who use large 3D seismic volumes to interpret their plays within a regional, basinwide context; and reservoir engineers whose work is based on detailed 3D reservoir models. Copublished with EAGE.

Paleoenvironmental Reconstruction of the Shublik Formation on the North Slope of Alaska

Cutting-edge techniques have always been utilized in petroleum exploration and production to reduce costs and improve efficiencies. The demand for petroleum in the form of oil and gas is expected to increase for electricity production, transport and chemical production, largely driven by an increase in energy consumption in the developing world. Innovations in analytical methods will continue to play a key role in the industry moving forwards as society shifts towards lower carbon energy systems and more advantaged oil and gas resources are targeted. This volume brings together new analytical approaches and describes how they can be applied to the study of petroleum systems. The papers within this volume cover a wide range of topics and case studies, in the fields of fluid and isotope geochemistry, organic geochemistry, imaging and sediment provenance. The work illustrates how the current, state-of-the-art technology can be effectively utilised to address ongoing challenges in petroleum geoscience.

Geological Literature on the North Slope of Alaska

"This special volume contains a selection of articles presented at the AAPG Hedberg Research Conference on Basin and Petroleum System Modeling (BPSM) held in Napa, California, on May 3-8, 2009."--P. 1.

The Sedimentary Basins of the United States and Canada

Investigations about porosity in petroleum reservoir rocks are discussed by Schmoker and Gautier. Polastro discusses the uses of clay minerals as exploration tools that help to elucidate basin, source-rock, and reservoir history. The status of fission-track analysis, which is useful for determining the thermal and depositional history of deeply buried sedimentary rocks, is outlined by Naeser. The various ways workers have attempted to determine accurate ancient and present-day subsurface temperatures are summarized with numerous references by Barker. Clayton covers three topics: (1) the role of kinetic modeling in petroleum exploration, (2) biological markers as an indicator of depositional environment of source rocks and composition of crude oils, and (3) geochemistry of sulfur in source rocks and petroleum. Anders and Hite evaluate the current status of evaporite deposits as a source for crude oil.

MMS.

CD-ROM contains: Geographic Information Systems (GIS) Database and Supplementary Data for Chapters.

Petroleum Plays and Systems in the National Petroleum Reserve-Alaska

The reservoir-engineering tutorial discusses issues and data critically important engineers. The geophysics tutorial has explanations of the tools and data in case studies. Then each chapter focuses on a phase of field life: exploration appraisal, development planning, and production optimization. The last chapter explores emerging technologies.

Petroleum Source Rocks

A comprehensive and richly illustrated overview of the Gulf of Mexico Basin, including its reservoirs, source rocks, tectonics and evolution.

Seismic Facies and Sedimentary Processes of Submarine Fans and Turbidite Systems

The determination of crustal structure by means of exploration seismology has been one of the major objectives of the European Seismological Commission (ESC) over the past twenty-five years. It was decided some time ago to publish the results of regional crustal investigations in Europe in a series of monographs. This publication entitled "Exploration Seismology in Central Europe - Data and Results" is Volume 1 in a sequence of publications dealing with the crustal structure in Europe. The European seismologists are indebted to the German Geophysical Society (Deutsche Geophysikalische Gesellschaft) for taking the initiative to publish this book. Thanks are due to the German Research Society (Deutsche

Forschungsgemeinschaft) for providing generous financial support of the field measurements and data evaluation. It is hoped that this publication will stimulate a continuation of investigations of the earth's lithosphere in order to elucidate the details which are still not fully understood.

Seismic Attributes for Prospect Identification and Reservoir Characterization

This hand guide in the Gulf Drilling Guides series offers practical techniques that are valuable to petrophysicists and engineers in their day-to-day jobs. Based on the author's many years of experience working in oil companies around the world, this guide is a comprehensive collection of techniques and rules of thumb that work. The primary functions of the drilling or petroleum engineer are to ensure that the right operational decisions are made during the course of drilling and testing a well, from data gathering, completion and testing, and thereafter to provide the necessary parameters to enable an accurate static and dynamic model of the reservoir to be constructed. This guide supplies these, and many other, answers to their everyday problems. There are chapters on NMR logging, core analysis, sampling, and interpretation of the data to give the engineer a full picture of the formation. There is no other single guide like this, covering all aspects of well logging and formation evaluation, completely updated with the latest techniques and applications. · A valuable reference dedicated solely to well logging and formation evaluation. · Comprehensive coverage of the latest technologies and practices, including, troubleshooting for stuck pipe, operational decisions, and logging contracts. · Packed with money-saving and time saving strategies for the engineer working in the field.

Application of Analytical Techniques to Petroleum Systems

Explores issues with the Alaska gas pipeline including, safety, security, economics, and the environment.

Basin Modeling

Elements of 3D Seismology, third edition is a thorough introduction to the acquisition, processing, and interpretation of 3D seismic data. This third edition is a major update of the second edition. Sections dealing with interpretation have been greatly revised in accordance with improved understanding and availability of data and software. Practice exercises have been added, as well as a 3D seismic survey predesign exercise. Discussions include: conceptual and historical foundations of modern reflection seismology; an overview of seismic wave phenomena in acoustic, elastic, and porous media; acquisition principles for land and marine seismic surveys; methods used to create 2D and 3D seismic images from field data; concepts of dip moveout, prestack migration, and depth migration; concepts and limitations of 3D seismic interpretation for structure, stratigraphy, and rock property estimation; and the interpretation role of attributes, impedance estimation, and AVO. This book is intended as a general text on reflection seismology, including wave propagation, data acquisition, processing, and interpretation and will be of interest to entry-level geophysicists, experts in related fields (geology, petroleum engineering), and experienced geophysicists in one subfield wishing to learn about another (e.g., interpreters wanting to learn about seismic waves or data acquisition).

The Petroleum System

This book provides a comprehensive overview of the geology and the petroleum potential of the Arctic. Nine papers offer a circum-Arctic perspective on the Phanerozoic tectonic and palaeogeographic evolution, the currently recognized sedimentary basins, the gravity and magnetic fields and, perhaps most importantly, the petroleum resources and yet-to-find potential of the basins. The remaining 41 papers provide data-rich, geological and geophysical analyses and individual oil and gas assessments of specific basins throughout the Arctic. These detailed and well illustrated studies cover the continental areas of Laurentia, Baltica and Siberia and the Arctic Ocean. Of special interest are the 13 papers providing new data and interpretations on the extensive, little known, but promising, basins of Russia.

The Petroleum System

The 5-year Circum-Arctic Lithosphere Evolution (CALE) program developed new constraints on the tectonic history of the central Amerasia basin of the Arctic Ocean. This volume is the final synthesis of the CALE program, which brought together an international team of scientists to develop integrated, multi-disciplinary understanding of the region. This approach, based on the integration of much new geological and geophysical data from onshore and offshore, is necessary to advance

our understanding of this basin. Regional onshore-to-offshore transects are central to the 18 papers in this volume. The diverse science supporting these crust-to-mantle regional transects includes structural, geochronological, isotopic, potential fields, and seismic reflection and refraction data. Four chapters present circum-Arctic investigations by the regional CALE teams. The final chapter addresses pan-Arctic themes. This unique collaboration, relying on new data and new syntheses of existing data sheds new light on the history of the Arctic Ocean.

Alaskan North Slope geology

This publication is a general introduction to common openhole logging measurements, both wire line and MWD/LWD, and the interpretation of those measurements to determine the traditional analytical goals of porosity, fluid saturation, and lithology/mineralogy. It is arranged by the interpretation goals of the data, rather than by the underlying physics of the measurements. The appendix files contain digital versions of the data from the case studies, a summary guide to the measurements and their interpretation, and a simple spreadsheet containing some of the more common interpretation algorithms.

Tectonic Evolution of the Bering Shelf-Chukchi Sea-Arctic Margin and Adjacent Landmasses

As part of an increasing interest in radiation embrittlement for aging nuclear reactors, scientists gathered in New Orleans in January 1997 to consider the interests and capabilities of the scientific-testing community and of the commercial light-water-cooled power-reactor industry in terms of improving methods to characterize component integrity. The resulting 37 papers concentrate on the use of unique small and miniature specimens; nondestructive, nonintrusive, and in-situ test techniques for measuring mechanical and fracture properties; the application of tests to irradiation-induced embrittlement; and actual examples of tests to determine material integrity and to evaluate potential component life extension. They consider experimental, analytical, and computational aspects. Annotation copyrighted by Book News, Inc., Portland, OR

Methods and Applications in Reservoir Geophysics

Foreland Basins and Fold Belts