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Brookian Topset

Play Alaska North

Slope

Topset Play

Alaska North

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**Brookian Topset
Play**

- The Nanushuk topset play of the central and western North Slope is more prospective than these assessments recognized. For example, at 300 million barrels recoverable, the Willow discovery far exceeds even the upside (F5) estimate for the Stratigraphic Brookian Topset play in NPRA.

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Brookian Topset

**Play, Alaska North
Slope**

The Brookian Topset Play involves stratigraphic traps in the Nanushuk Group and uppermost Torok Formation. The Brookian Topset Play is estimated to contain between 60 (95-percent probability) and 465 (5-percent probability) million barrels of

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technically recoverable oil, with a mean (expected value) of 239 million barrels, and between 0 (95-percent probability) and 679 (5-percent probability) billion cubic feet of technically recoverable natural gas, with a mean (expected value) of 192 ...

USGS Open-File Report 03-039 - Text

The Brookian
megasequence in the

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National Petroleum Reserve in Alaska (NPRA) includes bottomset and clinof orm seismic facies of the Torok Formation (mostly Albian age) and generally coeval, topset seismic facies of the uppermost Torok Formation and the Nanushuk Group.

**Brookian
stratigraphic plays
in the National**

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Petroleum ...

New oil discoveries in the Brookian sequence on Alaska's North Slope demonstrate the commercial viability of a previously speculative stratigraphic play type with vast unexplored potential. Recent exploration drilling has targeted two major plays in the lower Brookian Nanushuk and Torok Formations. The Nanushuk

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represents shelfal to non-marine topsets deposited concurrently with deeper water slope and basinal facies of the Torok Formation.

Nanushuk Formation Discoveries Confirm World-Class ...

Depositional setting and potential reservoir facies in the Nanushuk formation (Albian-Cenomanian), Brookian topset play, North

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Formation
Slope, Alaska Authors:
LePain, D.L., Decker,
P.L., Helmold, K.P., and
Wartes, M.A.

LePain, D.L. and others, 2017 - Depositional setting and ...

The Nanushuk topset
play in the central and
western North Slope is
far more prospective
than previous resource
assessments
recognized: o For
example, at 300 million

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barrels recoverable, the Willow discovery alone far exceeds even the 2010 USGS upside estimate (F5 case) for the entire Stratigraphic Brookian Topset play in NPRA.

**World-class
exploration
potential in a newly
proven ...**

Likewise, the Horseshoe-Willow area topset play in Alaska offset a 2002 dry hole

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with pay behind pipe in shallow Cretaceous horizons virtually ignored by the industry. Caelus Energy's Smith Bay giant turbidite field, also in Alaska, was made by transferring knowledge of Cretaceous source rock and interbedded fan plays on the west coast of ...

**GEO ExPro -
Advances in**

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Stratigraphic Trap Exploration

The Nanushuk and Torok formations are thick, genetically coupled Aptian(?)–Cenomanian units deposited in topset (nonmarine to shelf) and deepwater (slope to basin) environments, respectively. These formations established a pattern of dominantly west-to-east axial fill that continued in the

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foreland basin
throughout Cretaceous
and Tertiary time.

BROOKIAN SEQUENCE STRATIGRAPHIC CORRELATIONS, UMIAT FIELD ...

Although oil was
discovered at the
formation by the Navy
in the 1940s, activity in
the Nanushuk
Formation has been
limited. Prior to 2015,
about 150 exploration

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wells had penetrated
the Nanushuk

Formation and Torok
Formation (which lies

2,000 to 3,000 feet

below the Nanushuk),

yet oil production was
established in just one

oil pool with less than
10 million barrels of

recoverable oil in each

...

**Booming Interest in
Nanushuk - Alaska
Business Magazine**

The Nanushuk

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Formation is a thick fluvial-deltaic-shelf succession, whereas the Torok Formation is its basinward equivalent. These two formations are genetically related and composed of clastic rocks. Hydrocarbons are held in these clastic rocks predominantly by stratigraphic traps.

Seismic attribute and petrophysics-

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assisted

interpretation...

The Torok Formation and overlying Nanushuk Formation (both mostly Albian) display the overall seismic geometry of bottomset-clinoform-topset strata indicating northeastward migration of a shelf margin.

**Depositional
sequences and
facies in the Torok**

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Recent North Slope
discoveries in the
Nanushuk Formation
rocks could also herald
a new, unexplored pay
type at Umiat, whose
Nanushuk Formation
rocks have never been
tested. Umiat Project
Maps. Oil and Gas
Activity. Gubik
Geologic Map. Geo
Cross Section. North
Slope Seismic Data.
3rd Party Studies.
Brookian Topset

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StratPlay AGS (2018)

Nanushuk...Topset

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Slope

Umiat Project -

Malamute Energy

Neogene Structural

Play (Kodiak) 0.00 0.05

0.20 0.00 1.84 7.62

0.00 0.38 1.55 2016

Alaska Undiscovered

Technically

Recoverable Oil and

Gas Resources (UTRR)

Oil (Bbbl) Gas (Tcf)

BOE (Bbbl)

2016 National

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Formation

Assessment UTRR Values by Geologic Play

Trap type

Turbidite Stratigraphic

Topset Stratigraphic

Topset Stratigraphic

Net Pay 183-223 ft

42-72 ft < 225 ft Oil

Gravity 40-45 degree

API (calc) 41-44 degree

API 30 degree API ...

Proposed Nanushuk

Drill Site Drilled Wells

Pikka Unit Nanushuk

Reservoir Horseshoe

Leases ... • Multiple

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Nanushuk play
prospects identified on
existing 3D seismic ...

AOGA Conference 2019

The Nanushuk
Formation is part of a
larger Torok-Nanushuk
depositional sequence,
separated from the
Seabee-Tuluwak
sequence by a major
flooding surface
(Decker, 2007).

40Ar/39Ar ages and

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**geochemical
characterization of**

Wells have targeted five main play types: Ellesmerian clastics and carbonates (Kekiktuk, Lisburne, Ivishak, Shublik, and Sag River), Jurassic shoreface sands (Barrow, Simpson, Kugrua, Nechelik, Nuiqsut, and Alpine), Cretaceous rift sands (Walakpa, Kuparuk, Put River, Kemik, and

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Thomson), Brookian turbidites (Torok, Seabee, and Canning), and Brookian topsets (Nanushuk, Tuluvak, Schrader Bluff, West Sak, Ugnu, Prince Creek, and Sagavanirktok).

The History and Areal Distribution of Exploration Drilling

...

Oil Search, a relatively new player in Alaska, is developing the Pikka

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Unit in the Nanushuk formation. The company says

Nanushuk will be a major area of

development on the North Slope starting with Pikka, which it expects to produce approximately 620 million barrels of oil.

Far From Tapped Out - Alaska

Business Magazine

The Nanushuk and Torok Formations are

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part of the Brookian sequence. These rocks are Early to Late Cretaceous and Cenozoic progradational deposits, mostly composed of sand and shale sequences.

Houseknecht et al. (2009) and

Houseknecht (2019a, 2019b) suggest that the voluminous sediment in the Nanushuk-Torok Formations was

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derived from the

Brookian Topset Play Alaska North Slope

Seismic attribute and petrophysics- assisted

interpretation ...

The Nanushuk Formation is a clastic fluvial-deltaic-shelf succession, whereas the Torok Formation is its basinward equivalent. These formations are primarily composed of sand and shale sequences.

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A Tale of Two Conventional Reservoirs

Given both prospects are in the Nanushuk formation, the wells will only require drilling to about 5,000 feet to fully test, whereas a third prospect in the Peregrine block, Harrier Deep, has a Torok objective at about 10,000 feet.

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