Nanushuk Formation Brookian Topset Play Alaska North Slope

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Nanushuk Formation 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.

Nanushuk Formation 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 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 National Petroleum Reserve in Alaska (NPRA) includes bottomset and clinoform 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 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 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 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 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 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 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 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 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 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-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 Formation ...

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 StratPlay AGS (2018) Nanushuk ...

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 Assessment UTRR Values by Geologic Play

Trap type TurbiditeStratigraphic Topset Stratigraphic TopsetStratigraphic 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 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-Tuluvak sequence by a major flooding surface (Decker, 2007).

40Ar/39Ar ages and 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 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 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 part of the Brookian sequence. These rocks are Early to Late Cretaceous and Cenozoic progra-dational 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 derived from the

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.

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.