

Hydrocarbon Potential Of The Arctic

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North Slope

Norton Basin

Queen Elizabeth Islands

Mackenzie Delta/ Beaufort Sea

NWT: includes Yukon Territory and specifically the Eagle Plains Basin, Colville Hills, Peel Basin and Kandik Basin

North Greenland includes NW Greenland

West Greenland includes Baffin Bay

Europe/Russia Area

East Greenland

Norwegian Sea

Svalbard

Bjørnøy

Barents Sea

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Cambrian

Ordovician

Silurian

Devonian

Carboniferous

Permian

Triassic

Jurassic

Cretaceous

Tertiary

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These are discussed by area and grade, hence List A, B etc

NORTH AMERICAN RESERVOIRS

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QUEEN ELIZABETH ISLANDS

Isachsen

Awingak

Drake Pt/Heiberg

Pat Bay

Roche Point

Bjorne

Griper Bay, Hecla Bay, Bird Fiord and Weatherall

Kugmallit

Reindeer

Moose Channel

MACKENZIE DELTA

Parsons (Kamik)

Bug Creek (Aklavik)

ALASKA NORTH SLOPE

Sagavanirktok

Nanushuk

Pebble Shale/ Kuparuk River 'C' and Pt Thomson

Kuparuk River A/B Sands

Kingak including Alpine, Simpson and Barrow Sands

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ALASKA CHUKCHI SEA

Sadlerochit

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Lisburne: Beaufort Sea/ Mackenzie Delta & Alaska North Slope

ALASKA – NORTH SLOPE

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Echooka

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Endicott

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Cambrian petroleum system
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Triassic petroleum system
Carboniferous petroleum system
Arctic Fold Belt
Devonian petroleum system 1
Devonian petroleum system 2
Norton Basin
Paleogene petroleum system
East Greenland
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Jurassic petroleum system 2
Jurassic petroleum system 3
Permian petroleum system
Carboniferous petroleum system
Norwegian Sea
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Jurassic petroleum system
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Arctic Shelf 1

Paleogeography Figures (PDF)
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Early Cretaceous
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Silurian - Ordovician (Eurussia)

Petroleum Systems Montages (PDF)

North America
Boundary Creek/Smoking Hills
Canning Richards
Eids
Endicott
Husky
Kingak
Murray Harbour
Pebble Shale & Hue
Ringnes/Deer Bay
Shublik

Eurussia
Åre
Bazhnv
Botnha
Dmanik
Hekngn
Spekk

Source Rock Maps (PDF)

Norwegian Sea: Jurassic Systems Åre
Mackenzie Delta Jurassic Systems: Husky
Mackenzie Delta Cretaceous Systems: Boundary Creek/Smoking Hills
Local organofacies, paleogeography and isopachytes of the Upper Jurassic Spekk interval of Mid Norway, and of the palaeo-contiguous parts of the Norwegian Sea
Local organofacies, paleogeography and isopachytes of the Upper Jurassic Hekkingen of the Russian Barents Sea and paleo-contiguous areas
Local organofacies, paleogeography and isopachytes of the Upper Jurassic Hekkingen of the Norwegian Barents Sea and paleo-contiguous areas
Local organofacies, paleogeography and isopachytes of the Upper Jurassic Bazhenov of West Siberia, and adjacent areas
Local organofacies, paleogeography and isopachytes of the Upper Devonian Domanik of the Timan-Pechora area.
Local organofacies, paleogeography and isopachytes of the Triassic Murray Harbour interval of the Sverdrup Basin, Queen Elizabeth Islands, and of the palaeo-contiguous parts of the Western Arctic
Local organofacies, paleogeography and isopachytes of the Triassic (Shublik) of the North Slope of Alaska and Chukchi and Beaufort Seas
Local organofacies, paleogeography and isopachytes of the Tertiary Canning interval of the North Slope of Alaska, the Mackenzie Delta and the contiguous parts of the Beaufort Sea
Local organofacies, paleogeography and isopachytes of the Lower Cretaceous (Pebble Shale and Hue Shale) of the North Slope of Alaska and adjacent areas
Local organofacies, paleogeography and isopachytes of the Jurassic Ringnes and Deer Bay interval of the Sverdrup Basin, Queen Elizabeth Islands, and of the palaeo-contiguous parts of the Western Arctic
Local organofacies, paleogeography and isopachytes of the Jurassic (Kingak) of the North Slope of Alaska and adjacent Beaufort Sea
Local organofacies, paleogeography and isopachytes of the Devonian (Eids) of the Sverdrup Basin, Queen Elizabeth Islands
Local organofacies, paleogeography and isopachytes of the Carboniferous (Endicott) of the North Slope of Alaska and Chukchi Sea

Plate Tectonics Figures (PDF)

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Brookian Map & Sections
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Early Cambrian T&R
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Eurekan Orogeny (Kerr 1980)
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Fold Belt North Canada
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Laptev Sea Rift Basins Devonian
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Development Of Arctica & Associated Paleozoic Terranes 1) Lower Ordovician 460 Ma
Tectonic Evolution Of The Chukotkan Sector Of The Bennett Barrovia Block
Development Of Arctica & Associated Paleozoic Terranes 3) Present Day
Development Of Arctica & Associated Paleozoic Terranes 2) Middle Triassic 240 Ma
Present Day

Russia Far East 115Ma
Tectonic Model Alaska
West Spits Fold Belt
Yukon S-S Model

Polar Structural Elements (PDF)

NORTH AMERICAN DATA

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Badami
Kuparuk River
Lisburne
Prudhoe Bay
Tarn
Beaufort Sea
Adlartok
Amauligak
Tarsiut
Colville Hills
Tweed Lake
Mackenzie Delta
Parsons
Taglu
Tuk
Peel Basin
Norman Wells
Queen Elizabeth Islands
Bent Horn
Drake Point
Whitefish

North American Lithostrat (PDF)

Reservoir Figures (PDF)

North America
Triassic Reservoirs Core Porosity vs Permeability
Permian Reservoirs Core Porosity vs Permeability
Jurassic Reservoirs Core Porosity vs Permeability
Permian Reservoir Core Porosity vs Depth
Alaska
Jurassic Reservoir Core Porosity vs Depth
Triassic Reservoir Core Porosity vs Depth
Arctic Islands
Bjorne Reservoir
Pat Bay Reservoir
Roche Point Reservoir
Griper Bay/Weatherall Reservoir
Awingak Reservoir
Drake Point/Heiberg Reservoir
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Bug Creek Reservoirs
Kugmallit Reservoir
Reindeer Reservoir
Parsons Reservoir
Moose Channel Reservoir
Mackenzie Delta Region: Lower Cretaceous Reservoir Porosity vs depth
North Slope
Cretaceous Reservoirs (Kuparuk River 'C'/Thomson
Kuparuk A/B Reservoir
Sadlerochit Reservoir
Sag River Reservoir
Kingak Reservoirs Alpine/Barrow/Simpson
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Nanushuk Reservoir
Queen Elizabeth Islands
Jurassic Reservoir Core Porosity vs Depth
Triassic Reservoir Core Porosity vs Depth

Reservoir key Wells (PDF)

Reindeer Reservoir Well: Adlartok P-09
Canning Reservoir Well: Badami-1
Nanushuk Reservoir Well: Beli-1
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Bug Creek Reservoir Well: Blow River E-47
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Permian Clastics Well: Kugpik O-13
Kuparuk River Reservoir Well: Kugra-1
Parsons Reservoir Well: Parsons O-27
Lisburne Reservoir Well: Prudhoe Bay State-1
Endicott Reservoir Well: Prudhoe Bay State-1

Bjorne Reservoir Well: Romulus C-42
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Prince of Wales Island to Bathurst Island: Generalised Stratigraphic Early Palaeozoic Cross-Section
Mackenzie Delta: Schematic Cross Section Showing Main Deltaic Sequences and Formations
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Beaufort Sea: Oligocene Time Kugmallit Formation Isopach
Beaufort Sea: Oligocene Time Kugmallit Formation Structure
Norton Basin: Stratigraphic Column

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Amund Central Dome H-40
Hellefisk
Ikermiut
Romulus C-42
GRO-3
Rowley K-04
Blackfly M-55
Chance J-19

Stratigraphy Illustrations

North American Lithostrat
Mackenzie Delta: Schematic Cross Section Showing Main Deltaic Sequences and Formations
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Beaufort Sea: Oligocene Time Kugmallit Formation Isopach/A>
Beaufort Sea: Oligocene Time Kugmallit Formation Structure
Melville Island - Prince Patrick Island: South - North Regional Cross Section
Norton Basin: Stratigraphic Column
Norton Basin: Regional Geoseismic Section
Prince of Wales Island - Bathurst Island: Generalised Stratigraphic Early Palaeozoic Cross-Section
Beaufort Sea: Eocene Time Richards Formation Isopach

Prince Patrick Melville Islands Surface Geology (PDF)

Well Correlations (PDF)

A-A' Chukchi Sea
B-B' Barrow Arch, North Slope Alaska
C-C' Foothills – Barrow Arch, Alaska
D-D' Colville Hills – Mackenzie Delta, NWT Canada
E-E' Mackenzie Delta, NWT Canada
F-F' Ellef Ringnes Island – Melville Island, QEI, Canada
G-G' Banks Island – Brock Island, QEI, Canada

U.S.A.

Well Summary Sheets (PDF)

Alaska Wells
Chukchi Sea
Burger 1
Crackerjack 1
Diamond 1
Klondike 1
Popcorn 1

Kandik Basin
Doyon 3
Blackfly M-55

North Slope & Beaufort Sea
Alaska State A-1

Aurora 1
Badami 1
Beli 1
Bergschrund 1/2
Bermuda 1
Corona 1
Hammerhead 1/2
Iko Bay 1
Ikpikpuk1
Kalubik Creek 1
Kemik Unit 1
Kugrua 1
Lisburne 1
Meade 1
Milne Point A-1
Peard 1
Phoenix 1
Prudhoe Bay State 1
Pt. Thomson 1
Sag River State 1
Seabee 1
Tunalik 1
West Fish Creek 1
West Mikkelsen Bay 1
West Sak 2
West Stains State 2

Norton Basin
Cost #1
Cost #2

Selawik Basin
Nimiuk Pt. 1

Canada
Queen Elizabeth Island Wells
Amund Central Dome H-40
Apollo C-73
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Anderson Plain
Kugaluk N-02
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Colville Hills
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Rowley M-04
Mackenzie Delta
Aklavik A-37
Atkinson H-25
Beaverhouse Creek H-13
Blow River E-47
East Reindeer C-38
East Reindeer G-04
Ikhil K-35
Kamik D-48
Kugpik O-13
Niglintgak M-19
Parsons O-27
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Taglu C-42
Tuk J-29
Tuk L-09
Unak L-28
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Manitou Lake L-61
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Offshore Wells

Beaufort Sea
Adgo F-28
Adlartok P-09
Amauligak I-65B
Amauligak J-44
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Kenalooak J-94
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Natiak O-44
Netserk F-40

West Greenland Wells

Hellefisk -1
Ikermiut – 1
Gro - 3

Cross Plots (PDF)

North America
Jurassic Reservoir Core Porosity vs Permiability
Permian Reservoir Core Porosity vs Depth
Permian Reservoirs Core Porosity vs Permiability
Triassic Reservoirs Core Porosity vs Permiability
Alaska
Jurassic Reservoir Core Porosity vs Depth
Triassic Reservoir Core Porosity vs Depth
Mackenzie Delta
Region Lower Cretaceous Reservoir Core Porosity vs Depth
Queen Elizabeth Islands
Jurassic Reservoir Core Porosity vs Depth
Triassic Reservoir Core Porosity vs Depth

Seismic Cross Sections (PDF)

A-A' Chukchi Sea (North – South)
B-B' Chukchi Sea (West – East)
C-C' Norton Sound Basin
D-D' North Slope of Alaska (Foothills to Dinkum Graben)
E-E' North Slope of Alaska (NE Brooks Range to Barter Basin)
F-F' Mackenzie Delta (AE to do)
G-G' NWT (Kandik/Eagle Plains Basin to Richardson Mountains)
H-H' NWT (Richardson Mountains to Colville Hills Arch)
I-I' Queen Elizabeth Islands (Melville Island – Prince Patrick Island)
J-J' Queen Elizabeth Islands (Lancaster Sound – 'Outer Carbonate Rim')
K-K' NW Greenland (Melville Bay to oceanic crust)
L-L' West Greenland (Davis High to Saglek Basin)
L'-L" West Greenland (Nukik Platform Davis High)

EURUSSIAN DATA

Field Analogues (PDF)

Askeladd
Snohvit
Barents Sea
Murmansk
Shtokmanov
Kara Sea
Rusanov
Timan Pechora
Layavozh
North Gulyayev
Prirazlomn
South Shapkin
Toravey
Upper Grubeshor

Vosey
West Siberia
Taz
Urengoi
Zapolyarnoye

Eurussian Lithostrat (PDF)

Reservoir Figures (PDF)

Kara Sea
Aptian Reservoirs Malokhet & Tanopcha
Cenomanian Reservoirs - Dolgan, Pokur and Marresalin
Neocomian Reservoirs - Akh, Megion/Zapolyarny and Lower Khet/Sukhududin
Norwegian Sea
Jurassic Reservoir Garn Sand/A>
Jurassic Reservoir Nordmela
Jurassic Reservoir Stø Formation
Norwegian Sea: Jurassic Reservoir Tubœen

Reservoir key Wells (PDF)

Garn and Ile Reservoir Well: 6608/10-2
Tofte Reservoir Well: 6608/10-2
St&oslas; and Tibåen Reservoirs Well: 7120/12-2
Staroskol Reservoir Well: Kharyaga-1
Shapkina Reservoir Well: layavozh-1
Tyumen Reservoir Well: Novoport-130
Cretaceous Reservoir Well: Novoport-130
Jurassic reservoir Well: Shtokmanov-1
Jurassic Reservoir Well: South Noskov-318
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Seismic Line 86705
Seismic Line 87006
Seismic Line 87008
Seismic Line 87722
Seismic Line 88719/A>
Seismic Line 105
Seismic Line 110D
Seismic Line 2345-83/85
Seismic Line 2345-84
Seismic Line 2400-81B
Seismic Line 27
Seismic Line 34
Seismic Line 42
Seismic Line 50
Seismic Line 7245-84
Seismic Line 7245-85
Seismic Line 79401
Seismic Line 79404
Seismic Line 79-110
Seismic Line 82401
Seismic Line 85309
Seismic Line 86327
Seismic Line 86431
Seismic Line CT-1011
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Seismic Line VB17-9
Composite Seismic Line D-2-82/82A
Composite Seismic Line North-South
Composite Seismic Line West-East

Source Rocks (PDF)

Eurussian Arctic Source Rocks

Stratigraphy Figures (PDF)

Nurminsk

Cross Section B
Cross Section A
West Siberia
Lithological - Paleogeography Map: Bajocian - Early Callovian
Lithological - Paleogeography Map: Callovian (Jurassic)
Lithological - Paleogeography Map: Volgian (Jurassic)
Lithological - Paleogeography Map: Berriasian - Valanginian (Cretaceous)
Lithological - Paleogeography Map: Hauterivian (Cretaceous)
Lithological - Paleogeography Map: Aptian (Cretaceous)
Lithological - Paleogeography Map: Albian (Cretaceous)
Lithological - Paleogeography Map: Cenomanian (Cretaceous)
Lithological - Paleogeography Map: Turonian (Cretaceous)
Lithological - Paleogeography Map: Campanian - Maastrichtian (Cretaceous)

Eurussian Structural Elements (PDF)

Well Correlations (PDF)

Timan Pechora: Usa Field Well Log Correlation

M-M' Norwegian Sea-Barents Sea

N-N' Timan Pechora

O-O' West Siberian Basin

Well Summary Sheets (PDF)

Norway Wells

Barents Sea

7019/01-01

7119/12-03

7119/07-01

7119/09-01

7120/01-01,01R,01R2

7120/01-02

7120/12-02

7120/06-01

7120/07-02

7120/08-01

7120/09-02

7121/01/01,01R

7121/04-01

7121/07-02

7122/06-01

7122/07-01

7124/03-01

7125/01-01

7128/06-01

7226/11-01

7228/06-01S

7324/10-01

Norwegian Sea

6608/08-01

6608/10-01

6608/10-02

6608/11-01

6609/10-01

6609/11-01

6609/05-01

6609/07-01

6610/07-01

Svalbard

Grumant – 1

Russia Wells

Barents Sea

Arktichesky- 1

Fersmansov- 1

Ludlov- 1

North Murmansk- 1

Shtokmanov- 1

Franz Joseph Island

Nagursk- 1

Severny- 1

Khatanga-Lena Trough

N-16

P-13

Timan Pechora

Akvamarin- 1

Bagan- 1

Kharyaga- 1

Khoreiver- 1

Korova- 71

Layavozh- 1

Naul- 56

Peshanoozer- 46

South Shapkin- 26

Upper Grubeshor- 1

West Siberia

Anomalnaya- 51

Deryaba- 14

Khalmerpayata- 2006

Lodochny-5

Ozerny- 10

Maly Yamal- 1

Novoport- 58

Novoport-130

Nulmuyakha- 60

Payyakha- 1

Pelyatka- 15

Paykyakha- 201

South Noskov- 318

Suzun- 3

Suzun- 4

Suzun- 22

Tagul- 2

Tagul- 6
Taz- 53
Taz- 58
Turkov- 1
Urengoi 414
Ust Yuribei- 30
Vankora-2
Yarov- 2

Cross Plots (PDF)

Norwegian Sea

Garn Porosity/Depth plot, Norwegian Sea GPD
Garn Porosity/Permeability plot, Norwegian Sea GPP
Ile Porosity/Depth plot, Norwegian Sea IPD
Ile Porosity/Permeability plot, Norwegian Sea IPP
Melke Porosity/Depth plot, Norwegian Sea MPD
Nise Porosity/Depth plot, Norwegian Sea NPD
Tilje Porosity/Depth plot, Norwegian Sea TIPD
Tofte Porosity/Depth plot, Norwegian Sea TOPD
Tofte Porosity/Permeability plot, Norwegian Sea TOPP

West Siberia

Cretaceous Porosity/Depth plot, West Siberia CPD
Tyumen Porosity/Depth plot, West Siberia TPD
Tyumen Porosity/Permeability plot, West Siberia TPP

Seismic Cross Sections (PDF)

M-M' East Greenland (Jamesonland Basin to oceanic crust)
N-N' Norwegian Sea
O-O' Norwegian Sea
P-P' Timan Pechora to Senja FZ
Q-Q' Kara Sea to Senja FZ
R-R' Kola-Kanin to Franz Joseph Islands
S-S' Timan Pechora East to West
T-T' West Siberia Basin (East flank)

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