
**CANADA-NOVA SCOTIA
OFFSHORE PETROLEUM BOARD**

**GEOLOGICAL & GEOPHYSICAL
INFORMATION AVAILABLE
ON
CALL FOR BIDS NS11-01**

June 2011

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Introduction

This publication contains lists of released geological and geophysical reports available from the Canada-Nova Scotia Offshore Petroleum Board (“CNSOPB” or the “Board”) for the Call for Bids NS11-1 area (see Figure 1a) in the Nova Scotia offshore.

Additional information may be obtained from the CNSOPB’s “Information on Well Data, Geologic Data, Geophysical Data and Land Rights”, January 2011.

A. *Disclosure of Technical Data*

Sections 122 and 121 respectively of the federal and provincial legislation deal with the confidentiality and disclosure of information provided for purposes of the legislation.

Information or documentation in respect of an exploratory well is held confidential for 2 years following the well termination date. The following confidentiality period for delineation well is 2 years following the termination date of the discovery well on the same prospect, or 90 days following the well termination date of the delineation well, whichever is longer. For a development well, the confidentiality period is 2 years following the termination date of the discovery well on the same prospect, or 60 days following the termination date of the development well, whichever is longer. General information on a well, including its name, operator, classification, location, identity of the drilling unit, depth, and operation status of the drilling program may be obtained from the Board on a current basis.

Information or documentation in respect to non-exclusive geophysical work is held confidential for at least 10 years following the completion date of the work. The geophysical regulations define a non-exclusive survey as a geophysical operation that is conducted to acquire data for the purpose of sale, in whole or in part, to the public.

Information and documentation in respect to exclusive geological or exclusive geophysical work is held confidential for a period of 5 years following the completion date of the work. The date of completion is considered to occur 6 months after the field program is terminated. Operators are required to submit comprehensive reports on each program in the offshore area. These reports, together with associated items such as interpretative maps, seismic sections, well logs, cores, cuttings, fluid samples and paleontological materials derived from such programs are held confidential for the requisite period, and then released for public examination.

The completeness and quality of reports vary depending on operator and the program vintage.

B. *Explanation of Program Numbers for Geological and Geophysical Programs*

Released geological, geophysical and related reports are listed alphabetically by program number and company code. Upon approval of an application to conduct a geophysical or geological program, a unique program number is assigned to the project by the regulator. For programs completed prior to January 1990 this number was assigned by the federal Department of Energy, Mines and Resources (EMR). The number is coded to contain;

- the geographic region to which the program relates;
- the type of geophysical or geological work proposed;

- the company operating the program; and
- the sequential number of that type of program operated by that company.

For example, a typical program number for offshore Nova Scotia could be 8624-M003-044E. It follows the format ABCD-EFGH-IJKL, each sequence of letters corresponding to an alphanumeric code:

- **AB** (86 in example) identifies an east coast offshore exploration program approved prior to 1990. **NS** identifies an offshore Nova Scotia program completed after January, 1990 and approved by the Canada-Nova Scotia Offshore Petroleum Board.
- **CD** (24 in the example) identifies the type of geological/geophysical work where:
 - 20-combined geophysical Survey
 - 21-aeromagnetic survey
 - 23-seafloor gravity survey
 - 24-seismic reflection survey
 - 25-seismic refraction survey
 - 26-shallow seismic, seabed survey
 - 27-(re)processing, (re)interpretation
 - 28-geophysical (other)
 - 30-combined geological program etc
 - 31-offshore geological program
 - 32-paleontological/palynological study
 - 33-geochemical study
 - 34-petrography
 - 35-purchase of geological studies
 - 36-isotope age dating
 - 37-in-house geological studies
 - 39-onshore geological surveys
 - 40-research program/environmental
 - 41-environmental data
 - 42-chemistry & toxicity
 - 43-aesthetic environmental
 - 44-basis of design
 - 45-pipeline geophysical survey
 - 46-*geotechnical

*note: prior to 2004 geotechnical programs were classified with 26-shallow seismic, seabed

EFGH (M003 in the example) identifies the operator or company code where:

- A004 Amoco
- A012 Austin Exploration
- A014 Aqua Terra
- A024 Amoco Production Co.
- B003 B. P. O. P
- B004 Banner Petroleum Ltd.
- B011 Bow Valley
- C002 Canadian Export Oil & Gas
- C004 Chevron Canada
- C012 Canadian Reserve Oil & Gas

C015 Caravel/Catalina Exploration
C020 Canadian Superior
C033 Canadian Ashland Exploration
C034 Central Del-Rio Oils
C039 Cavalier Energy Inc.
C055 Canterra
C146 Canadian Superior Energy Inc.
D001 Digicon Exploration
D003 Dome Petroleum
D004 Delta Exploration
D009 Dome Canada
D015 Dalhousie University
E006 Exxon
E040 ExxonMobil Canada Properties
E043 EnCana Corporation
G001 Gulf Canada Resources
G005 Geophysical Service Inc.
G011 Geophoto services
G014 Great Plains Development
G020 Gebco (US) Inc.
G026 Geco Geophysical Canada Ltd.
G041 Government of Canada
G065 Geco-Prakla
G075 GX Technology
H005 Home Oil
H006 Husky Oil Operations Ltd.
H007 Hudson's Bay Oil & Gas
I003 Imperial Oil Resources Limited
J001 Esso Resources
J008 ICG Resources
J013 Jebco Surveys
L023 LASMO Nova Scotia Limited
K006 Kerr, J. William & Associates
M003 Mobil Oil Canada
M006 Murphy Oil
M013 McDermott, J. R
M055 Marathon Canada Limited
N005 Norcen Energy Resources
N011 Nova Scotia Resources Limited
O011 Onaping Resources Limited
P003 PanCanadian Petroleum Ltd.
P011 Pacific Petroleums
P028 Petro-Canada
R005 Robertson Research - N. America
S001 Seibens Oil & Gas
S003 Shenandoah Oil
S006 Shell Canada Resources
S008 Sun Oil
S009 Scurry-Rainbow Oil
S014 SOQUIP
S016 Sultan Exploration

S024 Seiscan Delta
S047 Simin Expl. Consultants Ltd.
S092 St. Mary's University
T007 Texaco Canada
T013 Transalta Oil & Gas
T021 Texaco Canada Resources
T036 Teknica Resource Development Ltd.
T063 TGS-NOPEC Geophysical Company
U003 Union Oil
V001 Voyager Petroleums
V003 Veritas Seismic
W006 Western Decalta
W013 Western Geophysical
W030 Western-Geo Canada

- **IJK (044E in the example) is the program type where:**

- E - exclusive program
- P - participation or speculative program
- DT - data trade
- DA - data acquisition

Therefore, the program number 8624-M003-044E indicates the 44th seismic reflection survey in the East Coast Offshore Region conducted exclusively for Mobil, and carried out prior to January, 1990.

C. Explanation Concerning Interpretation of Geologic Tops:

For all wells drilled prior to 1988 (D#1-124 inclusive), the geologic tops are sourced from the following publication: MacLean, B.C., and Wade, J.A., 1993: *Seismic Markers and Stratigraphic Picks in the Scotian Basin Wells*. East Coast Basin Atlas Series, Geological Survey of Canada, 276p. Tops data for all subsequent wells (D#125 onwards) are sourced from the respective companies' well history and related reports that are identified below each table.

Detailed information on all Scotian Basin stratigraphic units can be found in the following publication: Williams, G.L., Fyffe, L. R., Wardle, R. J., Colman-Sadd, S.P., and Boehner, R. C., 1985: *Lexicon of Canadian Stratigraphy Volume VI - Atlantic Region*. Canadian Society of Petroleum Geologists, Calgary, 572p.

1. Call For Bids NS11-01

Parcel 1 (Search Co-ordinates)

N. Latitude	42.33	E. Longitude	-64.00
S. Latitude	41.83	W. Longitude	-64.75

Program Number	Year	Location Map
Confidential Programs		
NS24-G005-008P	2003	Figure 31
NS24-T063-004P	2003	Figure 37
Off-Confidential Programs		
8620-G005-004P	1972	Figure 02
8620-S006-009E	1972	Figure 04
8620-S024-001P	1972	Figure 06
8624-C015-002P,003P,004P	1970	Figure 07
8624-P028-002E	1978	Figure 10
8624-P028-034E,051E	1982	Figure 11
8624-P028-060E	1983	Figure 14
8624-S006-005E,006E	1970	Figure 16
8624-S006-008E	1971	Figure 17
8624-S006-012E	1973	Figure 18
8624-S006-025E,026E	1981	Figure 19
8624-S006-032E	1982	Figure 21
8624-S006-036E	1983	Figure 23
8624-S006-042E	1984	Figure 24
8624-T021-006E	1983	Figure 25
8624-W013-001P	1983	Figure 27
8624-W013-005P	1985	Figure 28
NS24-G005-001P	1998	Figure 29
NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-P003-004E	2001	Figure 35
NS24-W013-002P,003P	1999	Figure 39
BGR 1979	1979	Figure 40

Parcel 2 (Search Co-ordinates)

N. Latitude	42.33	E. Latitude	-63.25
S. Longitude	41.83	W. Longitude	-64.00

Program Number	Year	Location Map
Confidential Programs		
NS24-T063-004P	2003	Figure 37
NS24-G005-008P	2003	Figure 31
Off-confidential Programs		
8620-S006-009E	1972	Figure 04
8620-S024-001P	1972	Figure 06
8624-S006-012E	1973	Figure 18
8624-S006-032E	1982	Figure 21
8624-S006-033E	1982	Figure 22
8624-W013-001P	1983	Figure 27
8624-W013-005P	1985	Figure 28
NS24-G005-001P	1998	Figure 29

NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-W013-001P	1998	Figure 38
NS24-W013-002P,003P	1999	Figure 39
BGR 1979	1979	Figure 40

Parcel 3 (Search Co-ordinates)

N. Latitude	42.33	E. Longitude	-62.50
S. Latitude	41.83	W. Longitude	-63.15

Program Number	Year	Location Map
Confidential Programs		
NS24-T063-004P	2003	Figure 37
NS24-G005-008P	2003	Figure 31
Off-confidential Programs		
8620-G005-004P	1972	Figure 02
8620-S006-009E	1972	Figure 04
8620-S024-001P	1972	Figure 06
8624-S006-012E	1973	Figure 18
8624-S006-032E	1982	Figure 21
8624-W013-001P	1983	Figure 27
8624-W013-005P	1985	Figure 28
NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-W013-001P	1998	Figure 38
NS24-W013-002P,003P	1999	Figure 39
BGR 1979	1979	Figure 40

Parcel 4 (Search Co-ordinates)

N. Latitude	42.50	E. Longitude	-61.75
S. Latitude	42.00	W. Longitude	-62.50

Program Number	Year	Location Map
Off-confidential Programs		
8620-G005-004P	1972	Figure 02
8620-S006-009E	1972	Figure 04
8620-S014-006E	1983	Figure 05
8620-S024-001P	1972	Figure 06
8624-S006-012E	1973	Figure 18
8624-S006-032E	1982	Figure 21
8624-S006-036E	1983	Figure 23
8624-W013-001P	1983	Figure 27
8624-W013-005P	1985	Figure 28
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-P003-002E	2000	Figure 34
NS24-W013-001P	1998	Figure 38

Parcel 5 (Search Co-ordinates)

N. Latitude	42.50	E. Longitude	-61.00
S. Latitude	42.00	W. Longitude	-61.75

Program Number	Year	Location Map
Confidential Programs		
NS24-T063-004P	2003	Figure 37
Off-confidential Programs		
8620-S006-009E	1972	Figure 04
8624-S006-032E	1982	Figure 21
BGR 1979	1979	Figure 40
LITHOPROBE 1988	1988	Figure 41
NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-S006-001E/002E	2000	Figure 36

Parcel 6 (Search Co-ordinates)

N. Latitude	43.00	E. Longitude	-61.00
S. Latitude	42.50	W. Longitude	-61.75

Program Number	Year	Location Map
Confidential Programs		
NS24-T063-004P	2003	Figure 37
NS24-G075-003P	2003	Figure 33
Off-confidential Programs		
8620-G005-004P	1972	Figure 02
8620-M003-016E	1973	Figure 03
8620-S006-009E	1972	Figure 04
8620-S014-006E	1983	Figure 05
8624-P028-002E	1978	Figure 10
8624-P028-049E	1982	Figure 12
8624-S006-012E	1973	Figure 18
8624-S006-025E,26E	1981	Figure 19
8624-S006-028E,31E	1981	Figure 20
8624-S006-032E	1982	Figure 21
8624-S006-036E	1983	Figure 23
8624-W013-001P	1983	Figure 27
8624-W013-005P	1985	Figure 28
BGR 1979	1979	Figure 40
LITHOPROBE 1988	1988	Figure 41
NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-S006-001E/002E	2001	Figure 36

Parcel 7 (Search Co-ordinates)

N. Latitude	42.75	E. Longitude	-62.50
S. Latitude	42.33	W. Longitude	-63.50

Program Number	Year	Location Map
Confidential Programs		
NS24-G005-008P	2003	Figure 31
NS24-G075-003P	2003	Figure 33
Off-confidential Programs		
8620-S006-009E	1972	Figure 04
8620-S014-006E	1983	Figure 05
8624-C033-001E,002E	1973	Figure 08
8624-P028-002E	1978	Figure 10
8624-P028-034E,051E	1982	Figure 11
8624-P028-049E	1982	Figure 12
8624-P028-050E	1982	Figure 13
8624-P028-069E	1984	Figure 15
8624-S006-012E	1973	Figure 18
8624-S006-032E	1982	Figure 21
8624-S006-033E	1982	Figure 22
8624-T021-006E	1980	Figure 25
8624-T021-008E	1981	Figure 26
8624-W013-001P	1983	Figure 27
8624-W013-005P	1984	Figure 28
NS24-G005-002P	1999	Figure 30
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-P003-002E	2001	Figure 34
NS24-W013-002P,003P	1999	Figure 39

Parcel 8 (Search Co-ordinates)

N. Latitude	42.66	E. Longitude	-63.50
S. Latitude	42.33	W. Longitude	-64.50

Program Number	Year	Location Map
Confidential Programs		
NS24-G005-008P	2003	Figure 31
NS24-G075-003P	2003	Figure 33
NS24-T063-004P	2003	Figure 37
Off Confidential Programs		
8620-C020-001E,002E	1971	Figure 01
8620-S006-009E	1972	Figure 04
8620-S014-006E	1983	Figure 05
8624-P028-001E	1977	Figure 09
8624-P028-002E	1978	Figure 10
8624-P028-034E,051E	1982	Figure 11
8624-P028-060E	1983	Figure 14
8624-P028-069E	1984	Figure 15
8624-S006-005E,006E	1970	Figure 16
8624-S006-008E	1971	Figure 17
8624-S006-012E	1973	Figure 18
8624-S006-025E,026E	1981	Figure 19
8624-S006-032E	1982	Figure 21
8624-T021-008E	1981	Figure 26

8624-W013-001P	1983	Figure 27
8624-W013-005P	1984	Figure 28
NS24-G026-001P,G065-001P	1998	Figure 32
NS24-P003-004E	2001	Figure 35
NS24-W013-002P,003P	1999	Figure 39
BGR 1979	1979	Figure 40

2. Well Summaries

Acadia K-62

WELL SUMMARY

GENERAL INFORMATION

D #	171
Company	Chevron-PEX Shell
Location	42°51'43.54" N 61°55'02.08" W
UWI	300K624300061450
Area	Scotian Slope
Spud Date	April 11, 1978
Well Term. Date	August 2, 1978
Drilling Rig	Ben Ocean Lancer
Total Depth (m)	5,287
Water Depth (m)	866.2
Rotary Table (m)	12.8
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
762 mm x 928 m	30" x 3,044.6'
508 mm x 1,182.9 m	20" x 3,880.9'
399.7 mm x 1,785.2 m	13 ^{3/8} " x 5,856.9'
244.5 mm x 2,786.3 m	9 ^{5/8} " x 9,141.4'
177.8 mm x 4,881m (liner)	7" x 16,013.7' (liner)

WELL TEST SUMMARY

Type /Test #	Interval (m)	Recovery	Amt. Recovered
DST # 1	2,786.2 – 2,822.9	water cushion	152 m
		muddy water	475 m
		slightly muddy water	2,149 m
DST # 2	4,821.9 – 4,837.8m	water cushion	11.0m ³
		very muddy water	3.0 m ³
		slightly muddy water	1.5 m ³
		formation salt water	18.0 m ³
DST #3	3,023.01 – 4,755.49	water cushion	2 m ³
		rat hole mud	1.5 m ³
		formation water	24.0 m ³
		mud	1.5 m ³

GEOLOGIC TOPS:

	Depth (m)
Banquereau Fm	2,593.4 bottom
Wyandot Fm	2,593.4

Dawson Canyon Fm	2,620.1
Petrel Mb	2,714.4
(unconformity)	2,778.0
Roseway Equivalent	2,778.0
Abenaki Fm	3,306.0
Baccaro Mb	3,306.0
Misaine Mb	4,086.0
Scatarie Mb	4,304.0
Mohican Equivalent	4,950.0

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Borehole Compensated Sonic Log, Run 1-5
 Core Analysis Results
 4-Arm High Resolution Continuous Dipmeter (Computed), Run 1-4
 High Resolution Thermometer, Run 1
 Chemical analysis of Core Sample
 Special Data Analysis
 Graphical Summary Weather and Sea Conditions Vessel Response
 Geochemical Analysis
 Simultaneous Compensated Neutron Formation Density, Run 1-3
 Geochemical Well Site Log
 Palynology & Micropaleontological Report
 Seismic Reference Service, Run 1-5
 Well Test Report
 Well History Log (Crystal-Particle Size, Porosity etc.)
 Directional Survey/Dipmeter Cluster Calculation Listing
 Cement Bond Log, Run 2
 Directional Log (Computed), Run 1-4
 Dual Induction Laterolog, Run 1-5
 Core Photos (photocopied)

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Remarks</u>
Washed Cuttings	1,200.0 – 5,287.0	1,040	
Unwashed Cuttings	1,200.0 – 5,287.0	1,022	
Sidewall Core	1,881.0 – 4,887.2	90	
Canned Cuttings	1,200.0 – 5,272.0	208	

<u>Slides:</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source:</u>
Micropaleo	1,200.0 – 5,287.0	134	cuttings
Micropaleo	2,430.0 - 5,257.0	127	cuttings
Palynology	1,200.0 – 5,287.0	131	cuttings
Palynology	1,951.0 – 4,297.7	19	sidewall core
Palynology	1,828.8 – 2,270.2	11	sidewall core

<u>Core:</u>	<u>Interval (m)</u>	<u>Recovery (m)</u>
Core #1	2,811.4 – 2,813.0	1.5
Core #2	2,813.0 – 2,816.0	0.5
Core #3	2,816.0 – 2,822.9	6.8
Core #4	3,380.6 – 3,399.2	17.4
Core #5	3,736.8 – 3,752.4	15.5
Core #6	4,842.0 – 4,854.0	9.6

Albatross B-13

WELL SUMMARY

GENERAL INFORMATION

D #	268
Company	Petro-Can-Texaco et al
Location	42°42'10.68" 63°02'11.83"
UWI	300B134250063000
Area	Scotian Slope
Spud Date	December 12, 1984
Well Term. Date	March 28, 1985
Drilling Rig	Sedco 710
Total Depth(m)	4,046
Water Depth (m)	1,341
Rotary Table (m)	24
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
762 mm x 1,415 m	30" x 4,642'
508 mm x 1,862 m	20" x 6,109'
340 mm x 2,484 m	13 3/8" x 8,149'

GEOLOGIC TOPS (m):

Banquereau Fm	2,468.5
(unconformity)	2,468.5
Roseway/Artimon equiv.	2,468.5
Abenaki Fm	3,014.5
Baccaro Mb	3,014.5
(Fault)	3,815.0
Misaine Mb	3,958.4

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Compensated Densilog/Neutron, Run 1 & 2
 Dual Laterolog, Run 1 & 2
 Prolog Field Analysis, Well site Complex Reservoir Analysis
 Computed Four-Arm Diplog, Run 2
 BHC Acoustilog, Run 1 & 2
 Formation Multi-Tester Log, Run 2
 Directional Survey, Run 2
 Corgun, Run 2
 Minilog, Run 1 & 2

Composite Log
 Four-Arm Diplog, Run 2
 Core Photo's (Whole Diameter), Core 1
 Core Analysis Results
 Subsurface Masterlog
 Plan & Field Notes
 Formation Dip Listing, Run 1
 Borehole Seismic Log, Final Report
 Dual Laterolog (Reduced Mylar)
 Carbonate Petrographic Study-Final Report
 Composite Log
 Synthetic Seismogram April 1, 1985
 Synthetic Seismogram April 2, 1985
 Continuous Velocity Data
 Biostratigraphy-Final Report
 Addendum to Albatross B-13 Biostratigraphy Report
 Geochemical Evaluation
 Borehole Seismic Log-Final Report
 Well History Summary (Mud Report)
 Mud/Gas Log
 Velocity Data
 Continuous Velocity Data

SAMPLES

Sample Type	Interval (m)	# of Samples
Washed Cuttings	1,880 – 4,044	434
Unwashed Cuttings	1,880 – 4,044	434
Canned Cuttings (dried)	1,855 – 4,044	217

Slides

			<u>Sample Source</u>
Micropaleo	1,875 – 4,044	83	cuttings
Palynology	1,875 – 4,044	70	cuttings
Thin Section	2,511.5	1	core

Core:

		<u>Recovery (m)</u>
Core #1	2,511.5 – 2,517.0	5

Evangeline H-98

WELL SUMMARY

GENERAL INFORMATION

D #	251
Location	43°17'26.27" N 60°58'48.40" W
Company	Husky / Bow Valley
UWI	300H984320060450
Area	Scotian Shelf
Spud Date	March 27, 1984
Well Term. Date	June 16, 1984
Drilling Rig	Bow Drill II

Water Depth (m)	174
Rotary Table (m)	23.5
Total Depth MD (m)	3,365
Well Type	Exploration
Well Status	P&A
Info. Release Date	Released

WELL RE-ENTERED

GENERAL INFORMATION

D #	251
Location	43°17'26.85" N 60°58'50.60" W
Company	Husky / Bow Valley
UWI	As above
Spud Date	August 8, 1984
Well Term. Date	November 1, 1984
Drilling Rig	Bow Drill II
Water Depth (m)	174
Rotary Table (m)	20.1
Total Depth MD (m)	5,044
Well Type	Exploration
Well Status	P&A
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
762 mm x 456.6 m	30" x 1,498.0'
508 mm x 982.4 m	20" x 3,223.0'
340 mm x 3,141.6 m	13 ^{3/8} " x 10,307.1'

GEOLOGIC TOPS :

	MD (m)
Banquereau Fm	In casing
Wyandot Fm	1,8556.0
Dawson Canyon Fm	2,041.5
Petrel Mb	2,351.1, 2,371.0
Shortland Shale	2,824.0
(Fault)	4,023.0
(Top OP)	~4,023.0
(Fault)	4,649.0

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Sidewall Cores, Run 1 & 2
 Repeat Formation Tester, Run 1
 Waveform Long Spacing Sonic Log, Run 1
 Dual Induction-SFL, Run 1-3
 Simultaneous Compensated Neutron-Litho Density, Run 1 & 2
 Dual Laterolog Micro SFL, Run 1
 Long Spacing Sonic-Gamma Ray, Run 1-4
 Cement Bond-Variable Density Log, Run 1

Cyberdip (Field Print), Run 4
 Hydrocarbon Source Facies Analysis
 Biostratigraphy Report-Final Report
 Well Seismic Report
 Well Seismic Results (Field Print), Run 4
 Seismic Reference Survey, Run 2
 Dual Induction-SFL (Reduced Mylar)
 Composite Geological Well Data Log
 Formation Evaluation Log
 Wireline Data Pressure Log
 Drilling Data Pressure Log
 Pressure Evaluation Log
 Pressure Parameters Plot
 Stratigraphy
 Cost Plot
 Temperature Data Log
 Mud Resistivity Log

Bonnet P-23

WELL SUMMARY

GENERAL INFORMATION

D #	244
Company	Petro-Canada et al
Location	42°22'48.64" N 65°03'01.89" W
UWI	300P234230065000
Area	Scotian Shelf
Spud Date	January 14, 1984
Well Term. Date	April 4, 1984
Rig Release Date	Petro-Canada et al
Drilling Rig	Bow Drill 1
Total Depth(m)	4,336.2
Water Depth (m)	133
Rotary Table (m)	25
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
762 mm x 230.32 m	30" x 2,500'
508 mm x 425 m	20" x 1,394'
340 mm x 1,170.7 m	13 3/8" x 3840'
245 mm x 3,177.8 m	9 5/8" x 10,426'

GEOLOGIC TOPS (m):

Banquereau Fm	1,762.5 (bottom)
(Unconformity)	1,762.5
Logan Canyon Fm?	1762.5
Naskapi Mb	1,762.5

Roseway Unit?	1,796.0
Abenaki Fm	2,091.5
Baccaro Mb	2 091.5
Misaine Mb	3,178.6
Scatarie Mb	3,346.5
Iroquois Fm	3,525.0

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Dual Induction-SFL, Run 1-4
 Completion Record, Run 1
 Directional Log computed, Run 1
 Core Sample Taker Results, Run 1 & 2
 Cement Bond-Variable Density Log, Run 1
 Depth Derived Borehole Compensated Sonic Log, Run 1-4
 Four-Arm High Resolution Continuous Dipmeter (Computed), Run 1 & 2
 Borehole Geometry Survey & Cement Volume Log, Run 1 & 2
 Simultaneous Compensated Neutron Formation Density, Run 1-3
 Dual Laterolog Micro SFL, Run 1 & 2
 Repeat Formation Tester, Run 1
 Cyberlook (Reduced Mylar Only)
 Well Seismic Report
 Composite Log
 Subsurface Master Log
 Dual Induction-SFL (Reduced Mylar)
 Depth Derived Borehole Compensated Sonic Log (Reduced Mylar)
 Simultaneous Compensated Neutron-Formation Density (Reduced Mylar)
 Dual Laterolog Micro SFL (Reduced Mylar)
 Final Well Report (Mud Report)
 Drilling Data Pressure Log
 Formation Evaluation Log
 Temperature Data Log
 Pressure Evaluation Log
 Bit Cost Per Meter Plot
 Drill Rate Plot
 Resistivity Log
 Wireline Log
 Core Photo's (Whole Core), Core 1
 Directional Survey, Run 1-3
 High Resolution Dipmeter Cluster Listing, Run 2
 Well Seismic Report
 Petrology of the Iroquois Formation-Core 1
 Biostratigraphy Report
 Geochemical Evaluation-Final Report

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>
Washed Cuttings	445 – 3,945	595
Unwashed Cuttings	445 – 3,945	600
Canned Cuttings (dried)	445 – 3,945	294

<u>Slides</u>			<u>Sample Source</u>
Micropaleo	440 – 3,950	110	cuttings
Palynology	440 – 3,945	109	cuttings

Core:		Recovery (m)
Core #1	4,325.2 – 4,336.2	8.3

Glooscap C-63

WELL SUMMARY

GENERAL INFORMATION

D #	D231
Company	Husky Bow Valley et al
Location	43°12'09.83" 62°09'56.75"
UWI	300C634320062000
Area	Scotian Shelf
Spud Date	August 7, 1983
Well Term. Date	January 3, 1984
Drilling Rig	Bow Drill II
Total Depth (m)	4,542
Water Depth (m)	99
Rotary Table (m)	22.9
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
762 mm x 309.7 m	30" x 1,016.0'
508 mm x 847.6 m	20" x 2,780.8'
340 mm x 2,653 m	13 ^{3/8} " x 8,704.0'

GEOLOGIC TOPS:

	Depth (m)
Banquereau Fm	957.0 (bottom)
Wyandot Fm	957.0
Dawson Canyon Fm	1,107.5
Petrel Mb	1,322.9
Shortland Shale	1,383.0
Missisauga Fm	2,211.5
Roseway Artimon Equiv.	2,501.1
Abenaki Fm	2,696.0
Baccaro Mb	2,696.0
Misaine Mb	3,258.0
Scatarie Mb	3,345.0
Mohican Fm	3,475.5
(Glooscap Volcanics)	3,894.0
Argo Fm	4,045.5

ADDITIONAL REPORTS AND LOGS:

Well History Report

Simultaneous Compensated Neutron-Litho Density, Run 1
 Depth Derived Borehole Compensated Sonic Log, Run 1-4
 Simultaneous Compensated Neutron-Litho Density (Corrected Copy), Run 1
 Natural Gamma Ray Spectroscopy Log, Run 1
 Dual Laterolog Micro SFL, Run 1 & 2
 Dual Induction-SFL, Run 1-3
 Final Well Report
 Temperature Data Log
 Drilling Data Pressure Log
 Wireline Data Pressure Log
 Pressure Evaluation Log
 Bit Record
 Drill Rate
 Formation Evaluation Log (Mud Log)
 Delta Resistivity/Flow Line Resistivity
 Costs Cumulative Plot (1:3000)
 Composite Geological Well Data Log
 Well Seismic Report
 Micropaleontology Report
 Dual Laterolog Micro-SFL (Reduced Mylar)

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>
Washed Cuttings	320 – 4,540	740
Unwashed Cuttings	320 – 4,540	745
Canned Cuttings (dried)	320 – 4,540	423

Slides

			<u>Sample Source</u>
Micropaleo	320 – 4,540	126	co. cuttings
Micropaleo	320 – 4,450	122	cuttings
Palynology	2,692 – 4,540	96	co. sidewall core
Palynology	320 – 4,450	396	company cuttings
Palynology	320 – 4,450	120	cuttings
Thin Section	3,880 – 4,040	21	cuttings
Thin Section	670 - 610	4	core

Mohawk B-93

WELL SUMMARY

GENERAL INFORMATION

D #	5
Company	Shell
Location	42°42'10.52" N 64°43'53.50" W
UWI	300B934250064300
Area	Scotian Shelf
Spud Date	May 3, 1970
Well Term. Date	May 23, 1970
Drilling Rig	Sedco H
Total Depth(m)	2,126

Water Depth (m)	117
Rotary Table (m)	31.4
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
406 mm x 349.9 m	16" x 1,148'
244 mm x 1,063.0 m	9 5/8" x 3,488'

GEOLOGIC TOPS:

	Depth (ft)	Depth (m)
Banquereau Fm	2,012	613.3 (bottom)
(Unconformity)	2,012	613.3
Dawson Canyon Fm	2,012	613.3
Petrel Mb	3,406	1,038
Shortland Shale	3,702	1,128.4
(unconformity)	4,325	1,318.3
Naskapi Mb	4,325	1,318.3
Roseway Unit	4,396	1,339.9
Mohawk Fm	5,280	1,609.3
(granite basement)	6,930	2,112.3

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Biostratigraphic Log
 Biostratigraphy of Shell Mohawk B-93
 Borehole Compensated Sonic Log, Run 1-2
 Compensated Formation Density Log, Run 1
 Dual Induction-Laterlog, Run 1-2
 Geochemical Evaluation (x-ref. 8623-R5-1P)
 Source Rock Summary Chart
 Vitrinite Reflectivity Data Summary Chart
 Geochemical Data
 Micropaleontological/Palynological Report Appendix E
 Micropaleontology, Palynology, & Stratigraphy (x-ref. 8639-C20-1E)
 Velocity Survey

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>
Washed Cuttings	362.7 – 2,126.0	339
Unwashed Cuttings	362.7 – 2,126.0	341
Sidewall Core	472.4 – 2,112.3	121
Canned Cuttings (dried)	362.7 – 2,126.0	35

Slides

Micropaleo	502 – 2,094.0	31
Micropaleo	472.4 – 2,104.0	73
Micropaleo	362.7 – 2,118.3	97
Palynology	362.7 – 2,114.1	105
Palynology	472.4 – 1,857.4	60
Palynology	699.5 – 1,919.6	8

Sample Source

sidewall core
 sidewall core
 cuttings
 cuttings
 sidewall core
 sidewall core

Moheida P-15

WELL SUMMARY

GENERAL INFORMATION

D #	168
Company	Petro Canada et al
Location	43°04'56.32" N 62°16'44.33" W
UWI	300P154310062150
Area	Scotian Shelf
Spud Date	November 18, 1976
Well Term. Date	February 15, 1977
Drilling Rig	Sedco H
Total Depth(m)	4,298
Water Depth (m)	111.9
Rotary Table (m)	29.9
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
406 mm x 323.4 m	16" x 1,060.97'
340 mm x 905.3 m	13 3/8" x 2,970.2'
244 mm x 939.7 m	9 5/8" x 6,364.0'

GEOLOGIC TOPS (m):

	Depth ft	Depth m
Banquereau Fm	3618 (bottom)	1,102.8 (bottom)
(Unconformity)	3,618	1,102.8
Wyandot Fm	3,618	1,102.8
Dawson Canyon Fm	3,812	1,161.9
Petrel Mb	4,518	1,377.1
Logan Canyon Equiv	4,738	1,444.1
Missisauga Equiv	7,252	2,210.4
Roseway/Artimon?	8,312	2,533.5
Abenaki Fm	8,895	2,711.2
Baccaro Mb	8,895	2,711.2
Misaine Mb	11,040	3,365.0
Scatarie Mb	11,289	3,440.9
Mohican Fm	11,738	3,577.7
Iroquois Facies	12,230	3,727.7
(Breakup Unconformity)	13,265	4,043.2
Eurydice Fm? (Triassic)	13,265	4,043.2

ADDITIONAL REPORTS AND LOGS:

Final Well Report
 Borehole Compensated Sonic Log, Run 1-4
 Plan of Survey of Offshore Exploratory Well Location
 4-Arm High Resolution Continuous Dipmeter (Computed), Run 1-4

Long Spacing Sonic Log, Run 1-3
 Dipmeter Cluster Calculation Listing
 Micropaleontological Report & Palynology Summary
 Velocity Survey Plot
 Velocity Analysis
 Dual Induction Laterolog, Run 1-4
 Simultaneous Compensated Neutron Formation Density, Run 1-4
 Dual Induction Laterolog (Field Print), Run 4
 Borehole Compensated Sonic Log (Field Print), Run 4
 4-Arm High Resolution Continuous Dipmeter, Run 1-4
 Simultaneous Compensated Neutron Formation Density, Run 3
 Weather and Vessel Performance Summary
 Composite Well Log (Gamma Ray, Resistivity, etc.)
 Master Log (Gas in Cuttings, Drilling Rate etc.)

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>
Washed Cuttings	3,41.4 – 4,297.6	1,064
Unwashed Cuttings	3,41.4 – 4,297.6	1,064
Sidewall Core	3,65.8 – 4,261.1	209
Canned Cuttings (dried)	3,41.4 – 4,297.7	411

<u>Slides</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source</u>
Micropaleo	448.1 – 1,935.5	61	sidewall core
Micropaleo	2,538.9 – 4,297.7	59	cuttings
Palynology	4,297.7 – 4,261.1	113	cuttings
Palynology	448.0 – 4,261.1	149	sidewall core
Palynology	3,305.8	1	core
Thin Sections	2,561.8 – 3,769.2	5	core

<u>Core:</u>	<u>Interval (m)</u>	<u>Recovery (m)</u>
Core #1	2,452.1 – 2,567.3	2.44
Core #2	3,305.5 – 3,323.8	4.87
Core #3	3,743.8 – 3,763.1	16.09

Mohican I-100

WELL SUMMARY

GENERAL INFORMATION

D #	74
Company	Shell
Location	42°59'39.04" 62°28'51.32"
UWI	3001004300062150
Area	Scotian Shelf
Spud Date	December 27, 1971
Well Term. Date	March 10, 1972
Drilling Rig	Sedco H
Total Depth (m)	4,393
Water Depth (m)	153.3

Rotary Table (m) 29.9
Well Status P&A
Type of Well Exploratory
Info. Release Date Released

CASING:

Size x Depth (imperial)	Size x Depth (metric)
16" x 1,189'	406 mm x 362.4 m
13 ^{3/8} " x 3,231'	340 mm x 984.8 m
9 ^{5/8} " x 6,621'	244.5 mm x 2,018.4 m

GEOLOGIC TOPS:

	depth (ft)	depth (m)
Laurentian Fm	4,734	1,442.9
(unconformity)	4,734	1,442.9
Banquereau Fm	4,734	1,442.9
(unconformity)	5,616	1,711.7
Logan Canyon Equiv	5,616	1,711.7
Missisauga Equiv	7,212	2,198.2
Roseway/Artimon Equiv	8,248	2,513.9
Abenaki Fm	8,897	2,711.8
Baccaro Mb	8,897	2,711.8
Misaine Mb	10,920	3,328.4
Scatarie Mb	11,290	3,441.1
Mohican Fm	11,888	3,623.4
Iroquois Fm	12,426	3,787.4
(breakup unconformity)	14,064	4,286.7
Eurydice Fm	14,064	4,286.7
Argo Fm	14,322	4,365.3

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Borehole Compensated Sonic Log, Run 1-4
 Compensated Formation Density and Neutron Log, Run 1 & 2
 4-Arm High Resolution Continuous Dipmeter, Run 1-3
 Dual Induction-Laterlog, Run 1-4
 Micropaleontology, Palynology, Geochem, & Source Rock Analysis
 Directional Log, Run 1-3
 Velocity Survey (2 parts)
 Velocity Analysis
 Geochemical Evaluation (x-ref 8623-R5-1P)
 Compensated Formation Density Log, Run 1
 Geochem Analysis
 Micropaleontology & Palynology Summary
 Micropaleontology , Palynology & Stratigraphy

SAMPLES

Sample Type	Interval (m)	# of Samples
Washed Cuttings	393.2 – 4370.8	940
Unwashed Cuttings	393.2 – 4370.8	923
Sidewall Core	388.9 – 4,390.6	239

<u>Slides</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source</u>
Micropaleo slides	386.2 – 4,353.7	156	sidewall core
Micropaleo slides	386.2 – 4,236.7	162	cuttings
Micropaleo slides	2,540.8 – 2,844.7	14	core
Micropaleo slides	2,838.9 – 2,845.3	9	core
Palynology slides	388.9 – 2,164.1	100	sidewall core
Palynology slides	7,150 – 4,364.7	64	sidewall core
Palynology slides	386.2 – 3,602.7	124	cuttings
Palynology slides	987.5 – 1,786.1	7	cuttings
Palynology slides	3,627.1 – 4,236.7	24	cuttings
Palynology slides	1,798.3 – 4,364.7	25	cuttings
Palynology slides	2,524.6 – 4,099.6	68	core
Palynology slides	2,532.9 – 4,145.3	29	co. core
Palynology slides	2,536.5	1	cuttings
Thin Section slides	2,541.6 – 3,982.5	3	core/cuttings
Thin Section slides	2,541.7 – 4,334.6	10	cuttings
Nannofossil slides	335.3 – 4,236.7	7	cuttings

<u>Core:</u>	<u>Interval (m)</u>	<u>Recovery (m)</u>
Core #1	2,524.6 – 2,532.5	7.8
Core #2	2,532.5 – 2,541.7	8.8
Core #3	2,838.9 – 2,848.1	8.9
Core #4	3,220.2 – 3,229.4	9.1
Core #5	3,462.5 – 3,470.5	7.0
Core #6	3,691.1 – 3,700.3	9.0
Core #7	3,700.3 – 3,968.5	6.8
Core #8	4,091.9 – 4,101.1	7.6
Core #9	4,331.0 – 4,340.0	7.7

Montagnais I-94

WELL SUMMARY

GENERAL INFORMATION

D #	140
Company	Union et al
Location	42°53'40.71"N 64°13'46.51"W
UWI	3001944300064000
Area	Scotian Shelf
Spud Date	September 12, 1974
Well Term. Date	September 29, 1974
Drilling Rig	Sedco H
Total Depth (m)	1,945.9 m
Water Depth (m)	112.8 m
Rotary Table (m)	29.9 m
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (imperial)	Size x Depth (metric)
16" x 1,087'	406 mm x 331.3 m
13 3/8" x 2,961	340 mm x 902.5 m

GEOLOGIC TOPS :

	Depth (ft)	Depth (m)
Banquereau Fm	2,322 (bottom)	707.7 (bottom)
(volcanics)	2,140	652.3
(base tertiary unconformity)	2,322	652.3
(Logan Canyon Equiv.?)	2,322	652.3
(volcanics or volcanoclastics?)	3,128	953.4
	3,511	1,070.2
(meguma GP basement)	3,954	1,205.2

ADDITIONAL REPORTS AND LOGS:

Well History Log
 Borehole Compensated Sonic Log, Run 1 & 2
 4-Arm High Resolution Continuous Dipmeter, Run 1 & 2
 4-Arm High Resolution Continuous Dipmeter (Computed), Run 1 & 2
 Dual Induction Laterolog, Run 1 & 2
 Simultaneous Compensated Neutron Formation Density, Run 1
 Velocity Survey
 Gas Log
 Borehole Compensated Sonic Log, Run 1 & 2
 Report on the Drilling and Abandonment

SAMPLES

Sample Type	Interval (m)	# of Samples	Remarks
Washed Cuttings	350.5 – 1,636.7	336	vials
Unwashed Cuttings	350.5 – 1,636.7	335	bags
Sidewall Core	472.4 - 1,583.4	44	vials
Canned Cuttings (dried)	923.5 – 1,636.7	130	bags

Slides	Interval (m)	# of Samples	Sample Source
Micropaleo	579 – 755.9	84	cuttings
Palynology	341 - 771	24	cuttings
Palynology	472.4 – 1,583.4	33	sidewall core

Core:		Recovery (m)
Core #1	1,608.4 – 1,611.4	3.1

Newburn H-23

WELL SUMMARY

GENERAL INFORMATION

D # 377

Location 43⁰12'16.43" N
 60⁰48'21.20" W
Company Chevron Canada
UWI 300H234320060450
Area Scotian Slope
Spud Date May 22, 2002
Well Term. Date August 21, 2002
Drilling Rig Deepwater Millennium
Water Depth (m) 977
Rotary Table (m) 24
Total Depth MD (m) 6,070 m
Total Depth TVD (m) 5,983 m
Well Type Exploration
Classification Gas Show
Well Status P&A
Info. Release Date Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
914.4 mm x 1,093 m	36" x 3,586'
508 mm x 1,902 m	20" x 6,240'
346 mm x 3,502 m	13 ^{5/8} " x 11,489'
251 mm x 4,402 m	9 ^{7/8} " x 14,442'
197 mm x 5,403 m	7 ^{3/4} " x 17,726'

GEOLOGIC TOPS :	mMD	m TVD
(Base Pliocene)	1,636	1,636
(Oligocene Unconformity)	2,519	2,519
(Eocene Chalk)	2,786	2,789
Dawson Canyon Fm	2,979	2,979
Logan Canyon Fm (Albian Marker)	3,570	3,570
Logan Canyon Fm (Prodelta Marker)	3,910	3,910
Naskapi Mb (Equivalent)	4,450	4,448
Verrill Canyon Fm	4,825	4,795

Note: Geologic tops as interpreted by Chevron Canada

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Drilling Performance Log 2in/1hr 6.5 in. Section Composite Log Final Print Runs 9-12
 Impulse-Phase Resistivity TVD 6.5 in. Section Composite Log Final Print Runs 9-12
 Impulse-Phase Resistivity MD 6.5 in. Section Composite Log, Final Print Runs 9-12
 Drilling Performance Log 2in/1hr 8.5 in. Section Composite Log Final Print Runs 6-8
 Vision Services-ISONIC MD 8.5 in. Section Composite Log Final Print Runs 6-8
 Vision Resistivity-Phase TVD 8.5 in. Section Composite Log Final Print Runs 6-8
 Vision Resistivity-Phase MD 8.5 in. Section Composite Log Final Print Runs 6-8
 Drilling Performance Log 2in/1hr 12.25 in. Section Composite Log, Final Print Run 4
 Vision Services-ISONIC MD 12.25 in. Section Composite Log Run 4
 Vision Resistivity-Phase MD 12.25 in. Section Composite Log Final Print Run 4
 Drilling Performance Log 2in/1hr 17 in. Section Composite Log Final Print Run 3
 Vision Resistivity-Phase Shift MD 17 in. Section Composite Log Final Print Run 3

Drilling Performance Log 2in/1hr 26 in. Section Composite Log Final Print Run 2
Vision Resistivity-Phase Shift MD 26 in. Section Composite Log Final Print Run 2
Compensated Neutron Litho Density (HLT) Final Print Run 1
Mechanical Sidewall Coring Tool Final Print Run 1
Borehole Geometry-Temperature Log, Final Print Run 1
Dipole Sonic Imager Upper and Lower Dipole P&S Modes Final Print Run 1
Dipole Shear Sonic Imager MD Relabeled Final Run 1
Dipole Shear Sonic Imager MD Relabeled Final Run 2
Dipole Shear Sonic Imager MD Relabeled Final Run 4
Borehole Geometry Log, Final Print Run 2
Oil Base Micro Imager Tool, Final Print Run 2
Dipole Sonic Log Cement Top Pass, Final Print Run 2
Array Induction Log, Final Print Run 2
Mechanical Sidewall Coring Tool, Final Print Run 2
Modular Dynamics Formation Tester (PS-HY-PO-LFA-SC-MS-PC), Final Print Run 2
Compensated Neutron Litho Density High Resolution, Final Print Run 2
Natural Gamma Ray Spectrometry Log, Final Print Run 2
Dipole Sonic Upper & Lower Dipole P&S Modes, Final Print Run 2
Combinable Magnetic Resonance Log (CMR+), Recalibrated Run 3A
Natural Gamma Ray Spectrometry Log (HNGS), Final Print Run 3A
Compensated Neutron Litho Density High Resolution, Final Print Run 3A
Oil Base Imager Log, Final Print Run 3A
Compensated Neutron Litho Density High Resolution, Final Print Run 3B
Mechanical Sidewall Core Tool, Final Print Run 3B
Compensated Neutron Litho Density, Final Print Run 4
Array Induction Log, Final Print Run 4
Mechanical Sidewall Coring Tool, Final Print Run 4
Environmental Measurement Log 6-Arm Caliper and Temperature, Final Print Run 4
Dipole Sonic Log Upper & Lower Dipoles and P&S Modes, Run 4
Cement Retainer Setting Record, Final Print Run 5
OBMI Image Plot Final Print
Tadpole Plot Stereonet View Final Print
Tadpole Plot With Structural Dip Removed (6@195), Run 2
Tadpole Plot With Structural Dip Removed, Run 3
Wellsite Geologist Log 1:600 MD
Wellsite Geologist Log 1:600 TVD
Final Mudlog Report
Drill Log (From Mudlog Report)
Pressure Log (From Mudlog Report)
Mud Log 1:240 (From Mudlog Report)
Mud Log 1:600 (From Mudlog Report)
Combinable Magnetic Resonance Log (CMR+), Final Print Run 3A
Multi-Run Composite Log
Array Induction, Run 1
Well Seismic Report
Wave Data Report
Current Data Report
Meteorological Summary Report/2002 End of Well Forecast Verification Report
Vitrinite Reflectance and Visual Kerogen Analysis of Selected Source Rock Samples
Assessment of Seal Capacity
Geochemical Evaluation of Sidewall Core and Cuttings Samples from Newburn H-23
Petrographic Analysis of Sidewall Cores
Vitrinite Reflectance and Visual Kerogen Analysis of Selected Source Rock Samples from
Chevron Canada Resources et al Newburn H-23, Scotian Basin, Offshore Eastern Canada
Biostratigraphy of the Chevron et al Well Newburn H-23, Offshore Nova Scotia
Chronostratigraphic Summary Fig 1

Biostratigraphic Summary Encl 1
 Nannofossil Distribution 1890-2900m Encl 2
 Nannofossil Distribution 2900-3905m Encl 3
 Nannofossil Distribution 3900-4900m Encl 4
 Nannofossil Distribution 4900-6070m Encl 5
 Palynomorph Distribution 1880-2900m Encl 6
 Palynomorph Distribution 2900-3900m Encl 7
 Palynomorph Distribution 3900-4900m Encl 8
 Palynomorph Distribution 4900-6100m Encl 9
 CSAT-CSAT-CSAT-GR Zero Offset VSP Log
 Triple CSI-VSP Monitor Log
 Vertical Seismic Profile - Acoustic Impedance 1-D Inversion
 Vertical Seismic Profile - Composite Display
 Vertical Seismic Profile - Z-Axis Processing Step
 Corridor Stack from Combination of Both VSP Runs
 Borehole Geophysical Report
 Appendix V Biostratigraphic Analysis

Samples

SAMPLE TYPE	Interval (m)	# of Samples	Remarks
Washed Cuttings	1,920 – 6,070	699	
Unwashed Cuttings	1,920 – 6,070	699	
Sidewall Core	1,944.0 – 5,962.8	75	

Oneida O-25

WELL SUMMARY

GENERAL INFORMATION

D #	3
Company	Shell
Location	43 ⁰ 14'57.36" 61 ⁰ 33'36.49"
UWI	300O254320061300
Area	Scotian Shelf
Spud Date	September 1, 1969
Well Term. Date	November 16, 1969
Drilling Rig	Sedneth 1
Total Depth(m)	4,120
Water Depth (m)	82.3
Rotary Table (m)	25.9
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
508 mm x 241.1 m	20" x 791'
340 mm x 738.2 m	13 3/8" x 2,422'
244 mm x 2,083.6 m	9 5/8" x 6,836'

<u>GEOLOGIC TOPS:</u>	Depth (ft)	Depth (m)
Banquereau Fm	4,000 (bottom)	1,219.2 (bottom)
Wyandot Fm	4,000	1,219.2
Dawson Canyon Fm	4,063	1,238.4
Petrel Mb	4,604	1,403.3
Logan Canyon Equiv	4,782	1,441.1
Naskapi Mb	7,325	2,232.6
Missisauga Equiv	8,098	2,468.2
Verrill Canyon Fm	8,264	2,518.9
Abenaki Fm	9,456	2,822.2
Baccaro Mb	9,456	2,822.2
Misaine Mb	12,030	3,666.7
Scatarie Mb	12,276	3,714.7
Mohican Fm	12,680	3,864.9

ADDITIONAL REPORTS AND LOGS:

Well History Report
 3-Arm Focused Continuous Dipmeter (computed), Run 1-3
 Biostratigraphic Log
 Biostratigraphy of Shell Oneida O-25
 Biostratigraphy/Palynological Analysis
 Borehole Compensated Sonic Log, Run 1-4
 Compensated Formation Density Log, Run 1
 Dip Frequency
 Directional Log (Computed), Run 1-3
 Dual Induction-Laterlog, Run 1-4
 Geochemical Evaluation (x-ref. 8623-R5-1P)
 Microlog Caliper, Run 1
 Micropaleontological Report
 Micropaleontological/Source Rock Analysis Report
 Micropaleontology, Palynology, & Stratigraphy (x-ref. 8639-C20-1E)
 Sidewall Neutron Porosity Log, Run 1
 Velocity Survey (3 pieces)

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Remarks</u>
Washed Cuttings	274.3 – 3,834.8	984	
Unwashed Cuttings	274.3 – 4,109.9	1,013	
Sidewall Core	288.9 – 4,096.5	248	

<u>Slides</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source</u>
Micropaleo	4,087.3 – 4,096.5	3	sidewall core
Micropaleo	2,083.6 – 2,095.5	37	soil samples
Micropaleo	274.3 – 4,108.7	378	cuttings
Micropaleo	288.9 – 4,074.5	200	sidewall core
Palynology	448.1 – 4,105.7	139	sidewall core
Palynology	498.3 – 4,187.9	100	sidewall core
Palynology	3,636.3 – 3,767.3	8	cuttings
Palynology	1,371.6 – 4,108.7	32	cuttings
Palynology	2,083.6 – 2,096.5	6	soil samples
Palynology	2,157.9 – 2,877.3	6	co. core

Palynology	2,900.2 – 4,020.9	17	sidewall core
Palynology	274.3 – 3,880.1	130	cuttings
Nannofossil	362.4 – 4,096.5	22	sidewall core
Nannofossil	393.2 – 1,423.4	44	cuttings
Nannofossil	274.3 – 4,108.7	134	cuttings

Shelburne G-29

WELL SUMMARY

GENERAL INFORMATION

D #	280
Company	Pex et al
Location	42°38'26.87" 63°33'33.46"
UWI	300G294240063300
Area	Scotian Slope
Spud Date	March 31, 1985
Well Term. Date	September 16, 1985
Drilling Rig	Sedco 710
Total Depth(m)	4,005
Water Depth (m)	1,153.5
Rotary Table (m)	25
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
762 mm x 1,263.4	30" x 385.1'
508 mm x 1,600	20" x 487.7'
340 mm x 2,493.7	13 3/8 x 760.1'

GEOLOGIC TOPS :

	Depth (m)
Banquereau Fm	2,612.3 (bottom)
Wyandot Equiv.?	2,612.3
Dawson Canyon Fm	3,110.0
Petrel Mb?	3,194
Shortland Shale	3,288
Verrill Canyon Fm	3,740
Roseway Equiv.	3,985

ADDITIONAL REPORTS AND LOGS:

- Well History Report
- Well History Summary (Mud Report)
- Depth Derived Borehole Compensated Sonic Log, Run 1 & 2
- Microlog, Run 1 & 2
- Borehole Geometry Survey, Run 1
- Completion Record, Run 1
- Core Sample Taker Results, Run 1 & 2

Natural Gamma Ray Spectroscopy Log, Run 1 & 2
 Dual Induction-SFL, Run 1
 Dual Laterolog Micro SFL, Run 1 & 2
 Directional Survey, Run 1
 Stratigraphic High Resolution Dipmeter, Run 1
 Well Seismic Report
 Carbonate Petrography Report
 Final Biostratigraphic Report
 Composite Log
 Subsurface Master Log
 Depth Derived Borehole Compensated Sonic Log (Reduced Mylar)
 Simultaneous Compensated Neutron-Litho Density, Run 1 & 2

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Remarks</u>
Washed Cuttings	1,620- 3,990	329	
Unwashed Cuttings	1,620 – 3,990	474	
Sidewall Core	2,520 – 3,810	38	
Canned Cuttings (dried)	1,625 – 3,985	238	

<u>Slides</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source</u>
Micropaleo	1,620 – 3,990	80	cuttings
Palynology	1,620 – 3,990	116	cuttings

Shubenacadie H-100

WELL SUMMARY

GENERAL INFORMATION

D #	219
Location	42°49'28.43" N 61°28'42.81" W
Company	Shell et al
UWI	300H004250061150
Area	Scotian Slope
Spud Date	November 5, 1982
Well Term. Date	February 12, 1983
Drilling Rig	Sedco 709
Water Depth (m)	1,476.5
Rotary Table (m)	24.1
Total Depth MD (m)	4,200
Well Status	P&A
Well Type	Exploratory
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
762 mm x 1,519.9 m	30" x 4,987'
508 mm x 2,107.4 m	20" x 6,913'

333 mm x 2,583.2 m	13" x 8,474'
244 mm x 3,476.9 m	9 5/8" x 11,407'

<u>GEOLOGIC TOPS :</u>	<u>MD (m)</u>
Banquereau Fm	3,784 (bottom)
(?Miocene/Eocene Unconformity)	3,059
(turbidite fan)	?3,436
?Dawson Canyon Fm	3,784
Shortland Shale	3,996

ADDITIONAL REPORTS AND LOGS:

Well History Report
 Dual Laterolog Micro SFL, Run 1 & 2
 Borehole Compensated Sonic Log, Run 1-3
 Four-Arm High Resolution Continuous Dipmeter (Computed), Run 1 & 2
 Directional Log (Computed), Run 1 & 2
 Dual Induction-SFL, Run 1-3
 Cement Volume Log from Borehole Geometry Tool-GR, Run 1-3
 Core Sample Taker-Gamma Ray, Run 1 & 2
 Caliper Log, Run 1
 Simultaneous Compensated Neutron-Formation Density, Run 1 & 2
 Long Spacing Sonic-GR, Run 1-3
 Baroid Mud Report
 Directional Survey, Run 1 & 2
 Cement Bond-Variable Density Log, Run 1
 Palynological, Micropaleontological, & Geochemistry Summary
 Well Seismic Results, Run 1-5
 Mud/Gas Log
 Mud/Gas Log Re-drill

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Remarks</u>
Washed Cuttings	2,145 – 4,200	237	
Unwashed Cuttings	2,145 – 4,200	505	
Canned Cuttings (Dried)	2,150 – 4,200	205	
<u>Slides:</u>	<u>Interval (m)</u>	<u># of Samples</u>	<u>Sample Source</u>
Micropaleo	2,145 – 4,200	51	cuttings
Micropaleo	2,165 – 4,200	67	co. cuttings
Palynology	2,589.5 – 4,195.0	150	sidewall core
Thin Section	3,150 – 3,543	2	core
Thin Section	2,930	1	core
Thin Section	2,960	1	core
<u>Core:</u>	<u>Interval (m)</u>	<u>Recovery (m)</u>	
Core #1		no recovery	
Core #2	3,243.4 – 3,261.0	3.9	
Core #3	3,554.6 – 3,572.9	2.0	
Core #4	3,650.3 – 3,659.0	6.8	

Torbrook C-15

WELL SUMMARY

GENERAL INFORMATION

D #	383
Company	EnCana Corporation
Location	62°17'35.64" 42°34'02.60"
UWI	300C154240062150
Area	Scotian Slope
Spud Date	November 16, 2002
Well Term. Date	January 14, 2003
Drilling Rig	Eric Raude
Total Depth(m)	3,600
Water Depth (m)	1,674.5
Rotary Table (m)	25
Well Status	P&A
Type of Well	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
914 mm x 1,776.5 m	36" x 5,828'
508 mm x 2,621.4 m	20" x 8,600'

*<u>GEOLOGIC TOPS :</u>	depth (m)
Tertiary 34	2,905
Tertiary 33 (unconformity)	3,020
Tertiary 30 (unconformity)	3,245
Tertiary 20 (unconformity)	3,600

*Geologic Tops as interpreted by rig geologist.

ADDITIONAL REPORTS AND LOGS:

Well History Report – Volumes 1 & 2
 Composite (EMS-DSI-HRLA-MCFL-TLD-CNL-GR-HNGS) Log Final Print Suite 1, Run 4
 Natural Gamma Ray Spectrometry Log, Final Print Suite 1 Run 4
 High Resolution Laterlog Array Log, Final Print Suite 1 Run 4
 EMS Six Arm Caliper Borehole Geometry Log, Final Print Suite 1 Run 4
 Mechanical Sidewall Coring Tool, Suite 1 Run 4
 PEX Compensated Neutron Lithodensity Log, Final Print Suite 1 Run 4
 Dipole Shear Sonic Imager MD EMS-DSI-HRLT
 Dipole Shear Sonic Imager MD FMI-DSI-HNGS
 FMI Image Log
 FMI Image Log (Uninterpreted Images)
 FMI Dip Log (w/stereonets)
 End of Well Physical Environments Report (Meteorological/Forecast Verification/Wave/Current Data)
 PWD MD Log Interval 1699.5-2420.0m, Run 100
 PWD Time Log Interval 1699.5-2420.0m, Run 100
 PWD MD Log Interval 1699.5-1787.0m, Run 200

PWD Time Log Interval 1699.5-1787.0m, Run 200
 PWD MD Log Interval 1787.0-2650.0m, Run 300
 PWD Time Log Interval 1787.0-2650.0m, Run 300
 PWD MD Log Interval 2650.0-2657.0m, Run 400
 PWD Time Log Interval 2650.0-2657.0m, Run 400
 PWD MD Log Interval 2657.0-3600.0m, Run 500
 PWD Time Log Interval 2657.0-3600.0m, Run 500
 Composite (EMS-DSI-HRLA-MCFL-TLD-CNL-GR-HNGS) Log, Final Print Suite 1-Run 4
 EWR , DGR, BAT MD Log Final
 Geological Striplog
 Mud Log Scale 1:240
 Mud Log Scale 1:600
 Drilling Log Scale 1:600
 Pressure Log Scale 1:600
 PWD MD Log Interval 1699.5-2420.0m, Run 100
 PWD Time Log Interval 1699.5-2420.0m, Run 100
 PWD MD Log Interval 1699.5-1787.0m, Run 200
 PWD Time Log Interval 1699.5-1787.0m, Run 200
 PWD MD Log Interval 1787.0-2650.0m, Run 300
 PWD Time Log Interval 1787.0-2650.0m, Run 300
 PWD MD Log Interval 2650.0-2657.0m, Run 400
 PWD Time Log Interval 2650.0-2657.0m, Run 400
 PWD MD Log Interval 2657.0-3600.0m, Run 500

SAMPLES

<u>Sample Type</u>	<u>Interval (m)</u>	<u># of Samples</u>
Washed Cuttings	2,655 – 3,600	190
Unwashed Cuttings	2,655 – 3,600	190

3. NS11-01 Geophysical Data - Report Descriptions

Program No. (Parcel #)	Completion Date	Length (km)	Title	Mylar (Y/N)
8620-C020-001E,02E	15-Oct-71	6,536.9	Report on Seismic, Gravity, and Magnetic Survey, Scotian Shelf Area	Y
8620-G005-004P (1,3,4,6)	02-Dec-72	10,848.65	Final Report, East Coast Canada, Offshore Nova Scotia - Offshore Newfoundland Areas	Y
8620-M003-016E (6)	22-Jun-73	484.39	Geophysical Survey, Sable Island Area	N
8620-S006-009E x-ref 8620-S006-002E x-ref 8624-S006-009E (1,2,3,4,5,6,7,8)	06-Oct-72	9,248.64	Geophysical Survey on Scotian Slope, South West Sable Island, Eagle, Primrose	N
8620-S014-006E (4,6,7,8)	24-Jul-83	13,239.85	Marine Reflection Seismic Survey Over the Scotian Shelf Area (Including West Slope Area, West Banquereau, East Banquereau, Sable, and Scotia Basin)	Y
8620-S024-001P (1,2,3,4)	31-Oct-72	5,857.77	1972 East Coast Marine Participation Survey Offshore Nova Scotia and Newfoundland (Grand Banks)	Y
8624-C015-002P, 003P, 004P (1)	02-Oct-70	2,731.16	1970 East Coast Marine Seismic Participation Survey, Gulf of St. Lawrence, NFLD, and Nova Scotia Shelf	N
8624-C033-001E,002E (7)	13-Oct-73	282.80	Marine Seismic Survey, Mohican and Primrose Prospects	N
8624-P028-001E (8)	21-Oct-77	394.45	Marine Geophysical Survey, Western Shelf, Albatross	Y
8624-P028-002E (1,6,7,8)	28-Jun-78	1,117.05	Final Report on Marine Geophysical Survey, Shelburne	Y
8624-P028-034E (1,7,8)	25-May-82	1,084.33	Marine Reflection Seismic, Gravity & Magnetic Survey, Western Scotian Shelf	Y
8624-P028-049E (6,7)	12-Nov-82	2,024.13	Final Report – Mohican Basin, Scotian Shelf	Y
8624-P028-050E (7)	26-Oct-82	443.9	1982 Marine Reflection Seismic, Gravity & Magnetic Survey, Albatross	Y
8624-P028-060E (1,8)	11-Sep-83	573.43	1983 Marine Reflection Seismic, Gravity & Magnetic Survey, Bonnet Prospect	Y
8624-P028-069E (7,8)	19-Apr-84	358.50	1984 Marine Reflection Seismic, Gravity & Magnetic Survey, Western Scotian Shelf	Y

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8624-S006-005E,6E (1,8)	12-Mar-70 13-Oct-70	683.95 14,721.87	1970 Geophysical Report, Scotia Shelf, Wyandot, Ojibwa, Abenaki, Iroquois, Huron, Cree and Argo Areas	N
8624-S006-008E (1,8)	20-Aug-71	9,116.68	1971 Geophysical Report, Scotia Shelf-Chippewa, Huron, Mohican and Sauk	N
8624-S006-012E (1,2,3,4,6,7,8)	02-Aug-73	8,548.60	1973 Geophysical Report, Onondaga, Oneida, Wenonah, Hawkeye, Dolphin & Carbonate Edge	N
8624-S006-025E,26E (1,6,8)	26-Jan81 17-Jan-81	400.57 725.5	Final Reflection Seismic Report on Western Slope and South Acadia Areas	N
8624-S006-028E,031E (6)	31-Aug-81	2,447.87	Reflection Seismic Progress Report, South Acadia, Panasonic, E. Panasonic and Python	N
8624-S006-032E (1,2,3,4,5,6,7,8)	19-Oct-82	5,716.72	Reflection Seismic Program, Brown's Bank, Medway, South Acadia, Mira Bay, Glace Bay, Tor Bay and Python Areas on the Slope	Y
8624-S006-033E x-ref 8624-S6-27E (2,7)	26-Oct-82	4,832.36	Reflection Seismic Final Report, North and South Sable Areas	Y
8624-S006-036E (1, 4,6)	22-Jun-83	686.03	Reflection Seismic in Brown's Bank, South Acadia and Mira Bay Areas	Y
8624-S006-042E (1)	28-Sep-84	674.00	Reflection Seismic Final Report, Nova Scotia Offshore Slope, Panasonic and Browns Bank Areas	Y
8624-T021-006E (1,7)	10-Jun-83	448.43	Geophysical Survey, Chebucto Block (E.A. 781-004), Scotian Shelf	Y
8624-T021-008E (7,8)	7-Jul-81	410.00	1981 Seismic Survey, Albatross Scotian Shelf	Y
8624-W013-001P (1,2,3,4,6,7,8)	1-Aug-83	3,910.21	Final Report on Marine Seismic Survey of East Coast Canada, Nova Scotia Area 1983	Y
8624-W013-005P (1,2,3,4,6,7,8)	12-Mar-85	2,057.29	Final Report Marine Seismic Survey of East Coast Canada, Nova Scotia Area 1985	Y
NS24-G005-001P (1,2)	10-Apr-99	14,722.30	Barrington 1998 2D Seismic Survey	N
NS24-G005-002P (1,2,3,5,6,7)	8-Aug-00	9,675	Barrington 1999 2D Seismic Survey	N
NS24-G026-001P (1,2,3,4,5,6,7)	1998	7,107.8	Scotian Shelf – Deep Water	Y
NS24-G065-001P (1,2,3,4,5,6,7)	19-Aug-98	120.00	1998 2D Marine Seismic, Scotian Shelf, South of Sable.	N

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NS24-G075-003P x-ref NS24-G075-002P (7,8)	21-Nov-03	3,356.6	Ultra deep 2D Seismic – NovaSPAN CONFIDENTIAL Contact GXT Canada	N
NS24-P003-002E (4,7)	09-Aug-00	369.57 km ²	3D Marine Geophysical Survey, Torbrook	N
NS24-P003-004E (1,8)	27-Jun-01 31-Jul-01	1138.9 km ²	Barrington 3D Acquisition & 3D Seismic Survey Weymouth 3D Acquisition & 3D Seismic Survey	Y
NS24-S006-001E,002E (5,6)	15-Jun-01	14,088.30	3D Thrumcap Survey Geophysical Report	Y
NS24-T063-004P (1,2,3,5,8)	10-Dec-03	9,989	Southwest Scotian Shelf and Slope CONFIDENTIAL Contact TGS NOPEC	Y
NS24-W013-001P (2,3,4)	5-Oct-98	11,587	Nova Scotia 2000- 2D Seismic Survey	N
NS24-W013-002P (1,2,3,7,8)	27-Nov-99	4,163.9 km ²	Nova Scotia 2000 - 3D Seismic Survey	N
NS24-W013-003P (1,2,3,7)	20-May-00	158.22 km ²	Nova Scotia 200- 3D Seismic Survey	N
BGR 1979 (1,2,3,5,6,8)	1979	3,284.16	Contact BGR	N
LITHOPROBE 1988 (5,6)	1988	567.03	Scotian Shelf Area Deep Seismic Reflection Survey - Contact GSC Atlantic	N

4. Program Location Maps

Figure 01: Location Map for 8620-C020-001E, 002E

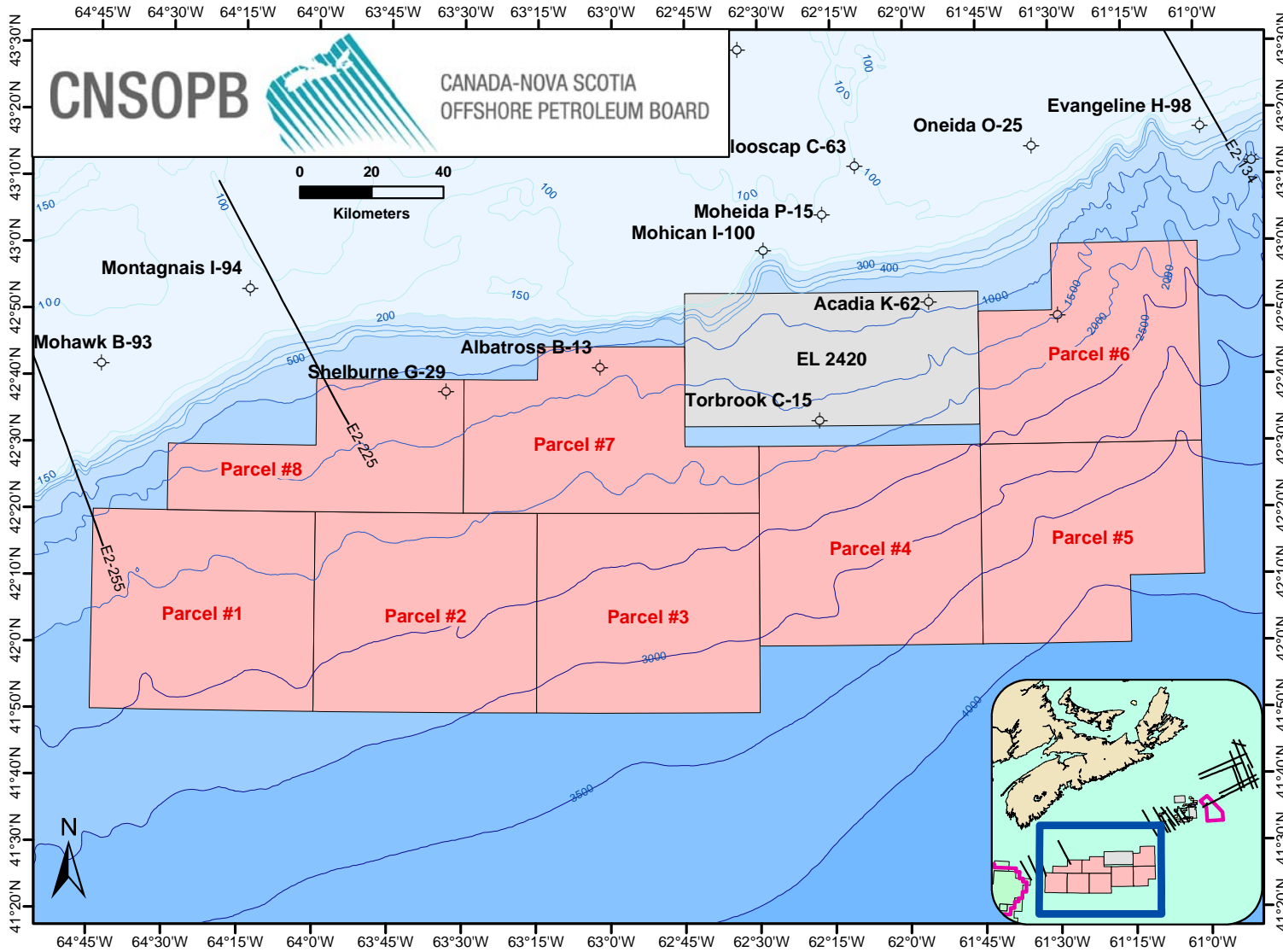


Figure 02: Location Map for 8620-G005-004P

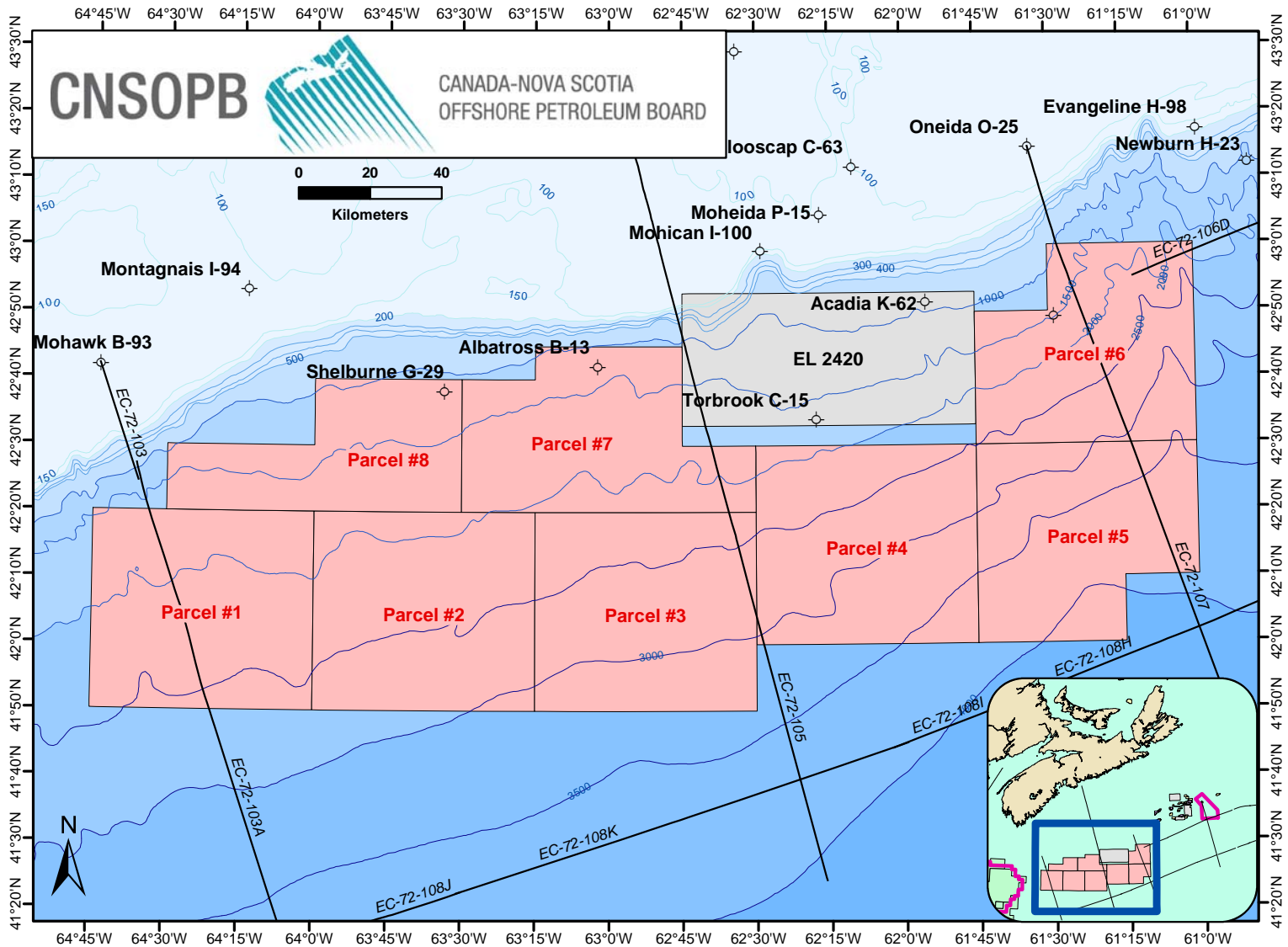


Figure 03: Location Map for 8620-M003-016E

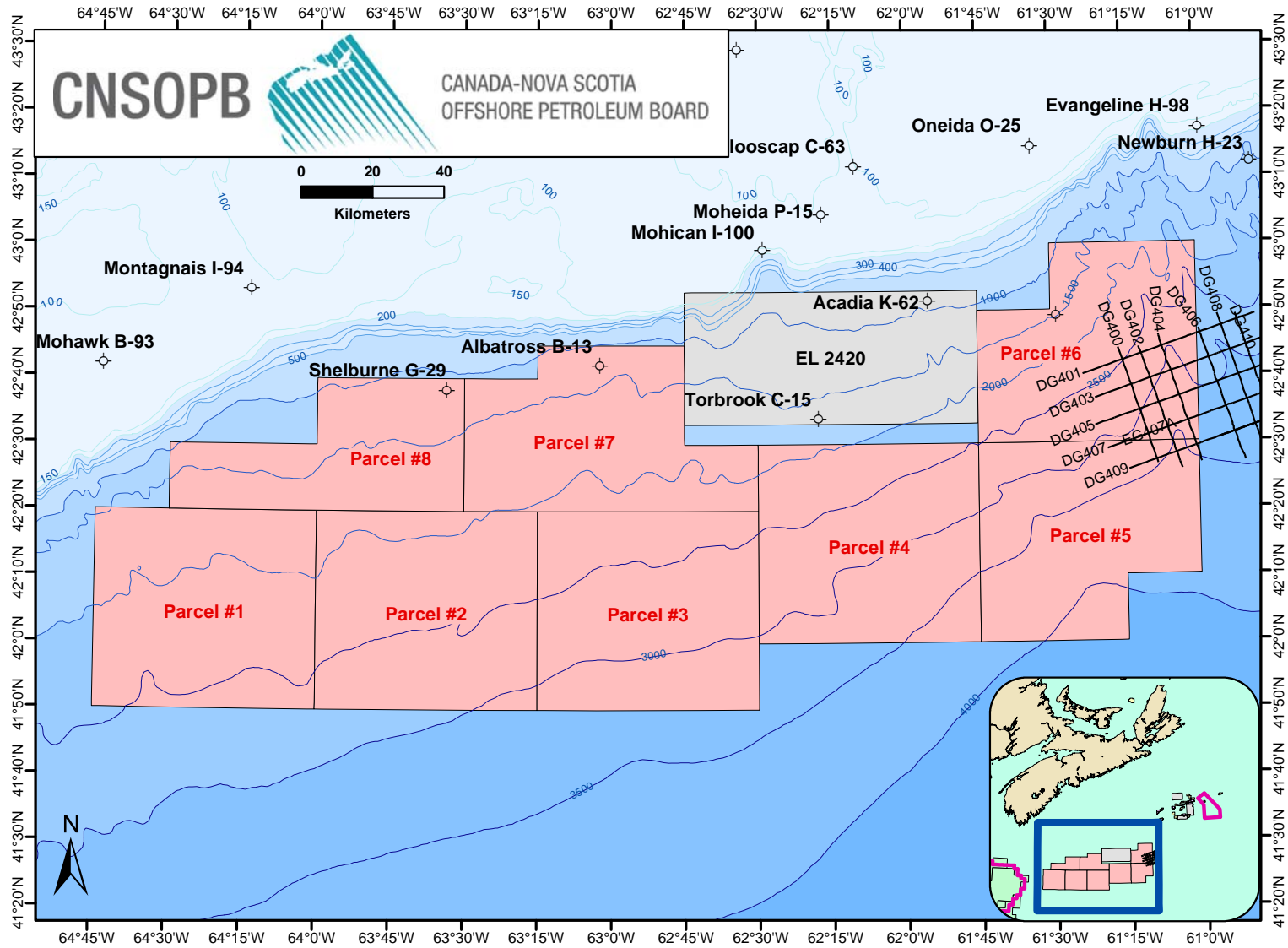


Figure 04: Location Map for 8620-S006-009E

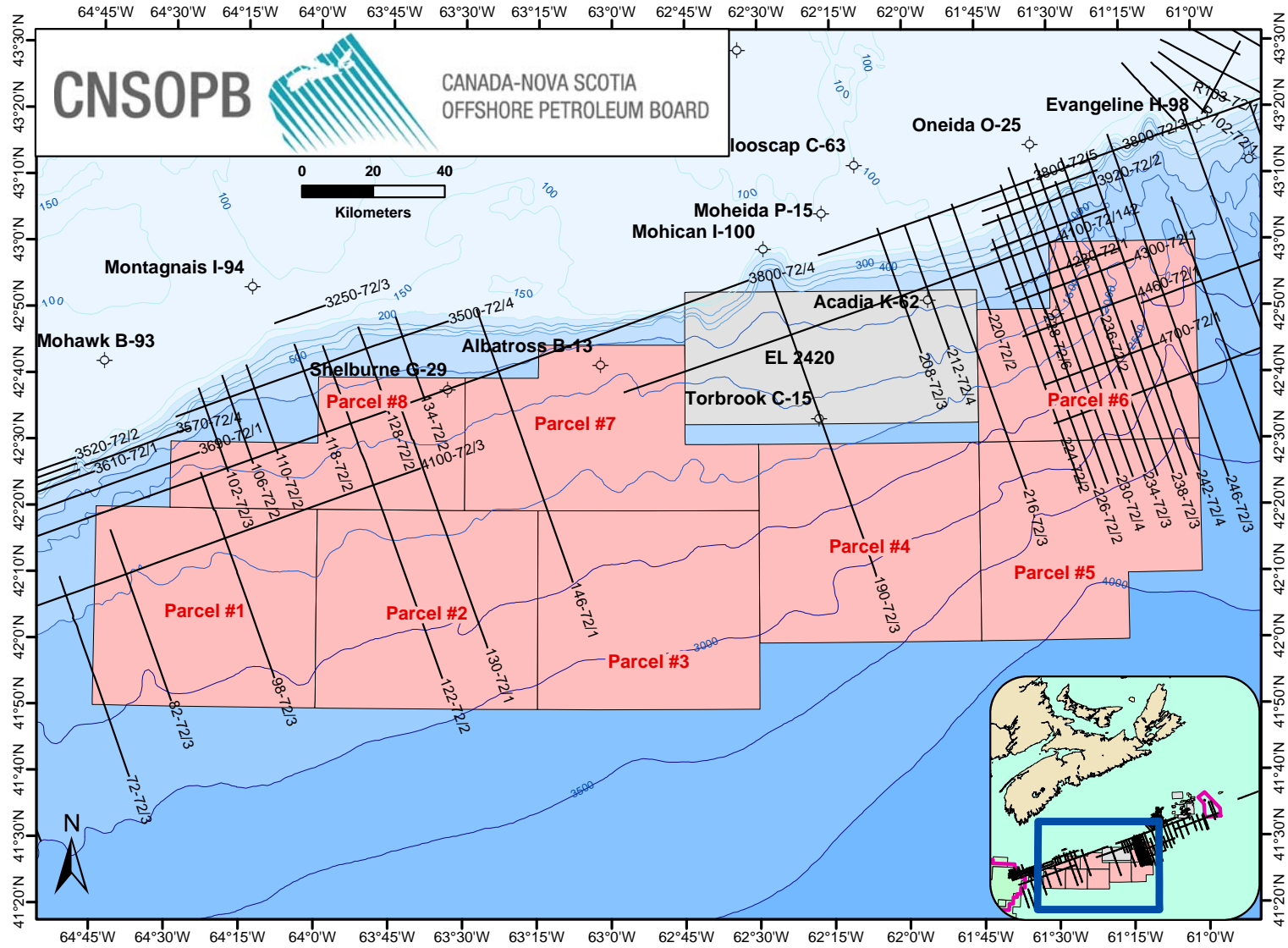


Figure 05: Location Map for 8620-S014-006E

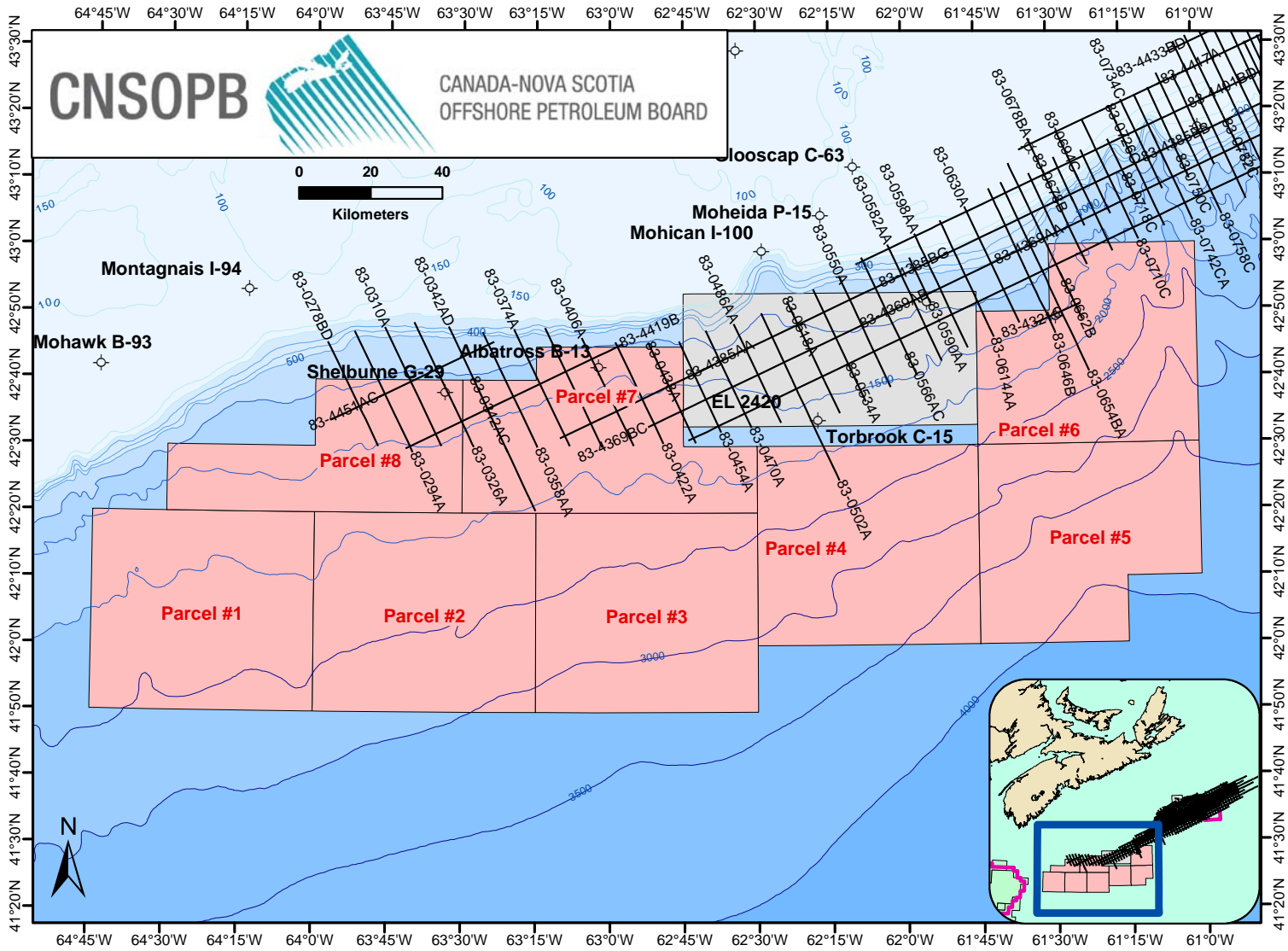


Figure 06: Location Map for 8624-S024-001P

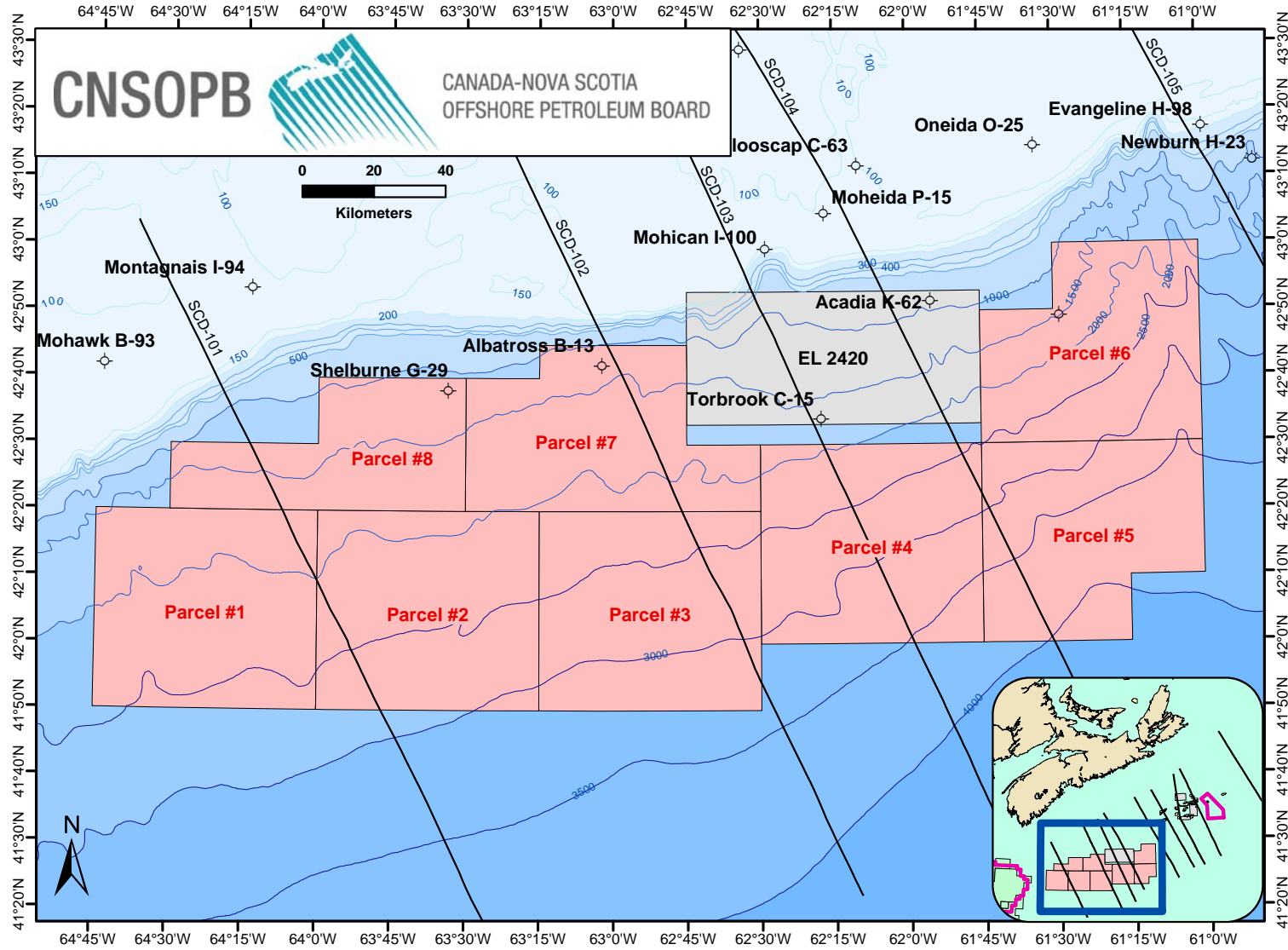


Figure 07: Location Map for 8624-C015-002P,003P,004P

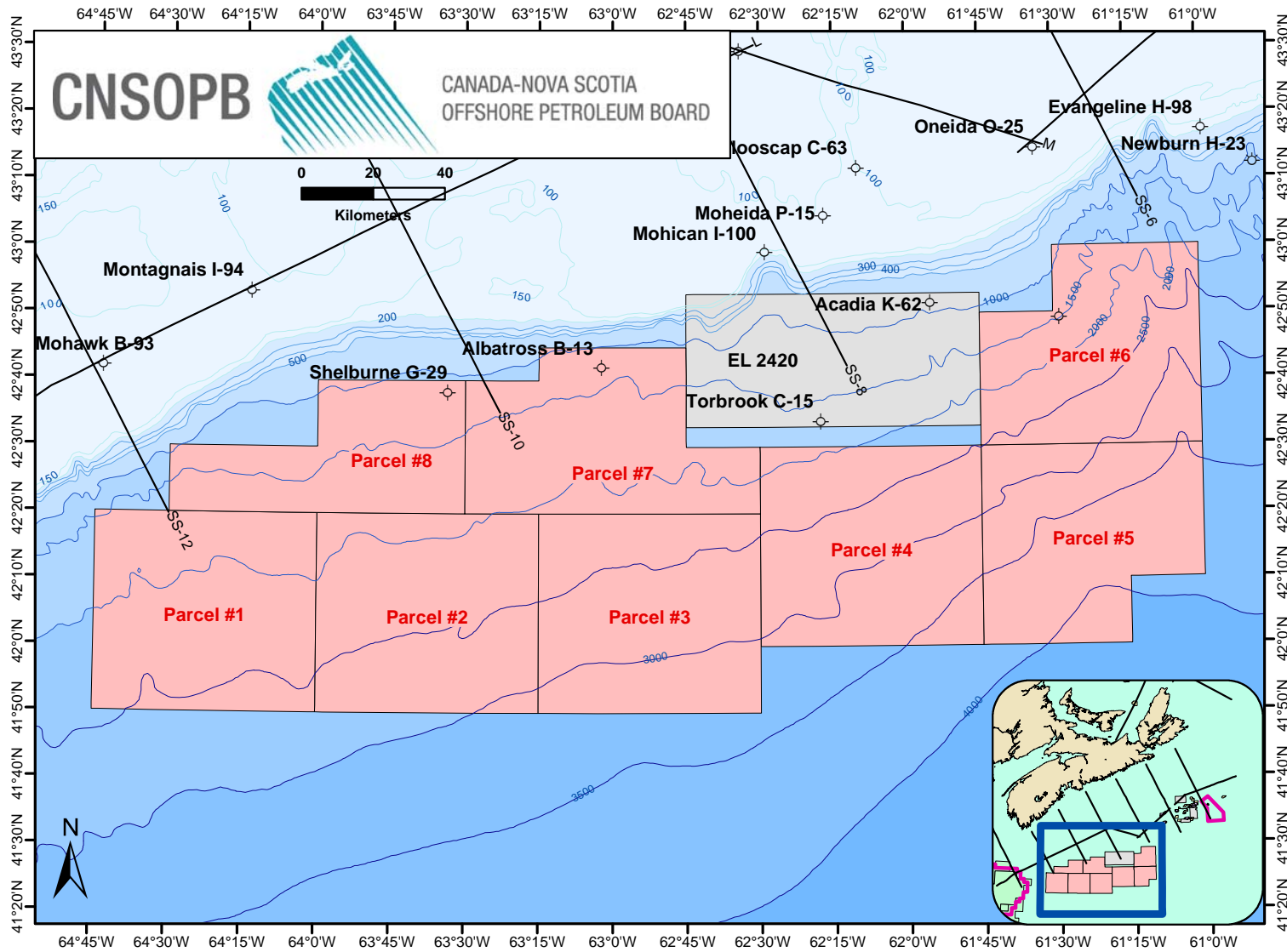


Figure 08: Location Map for 8624-C033-001E,002E

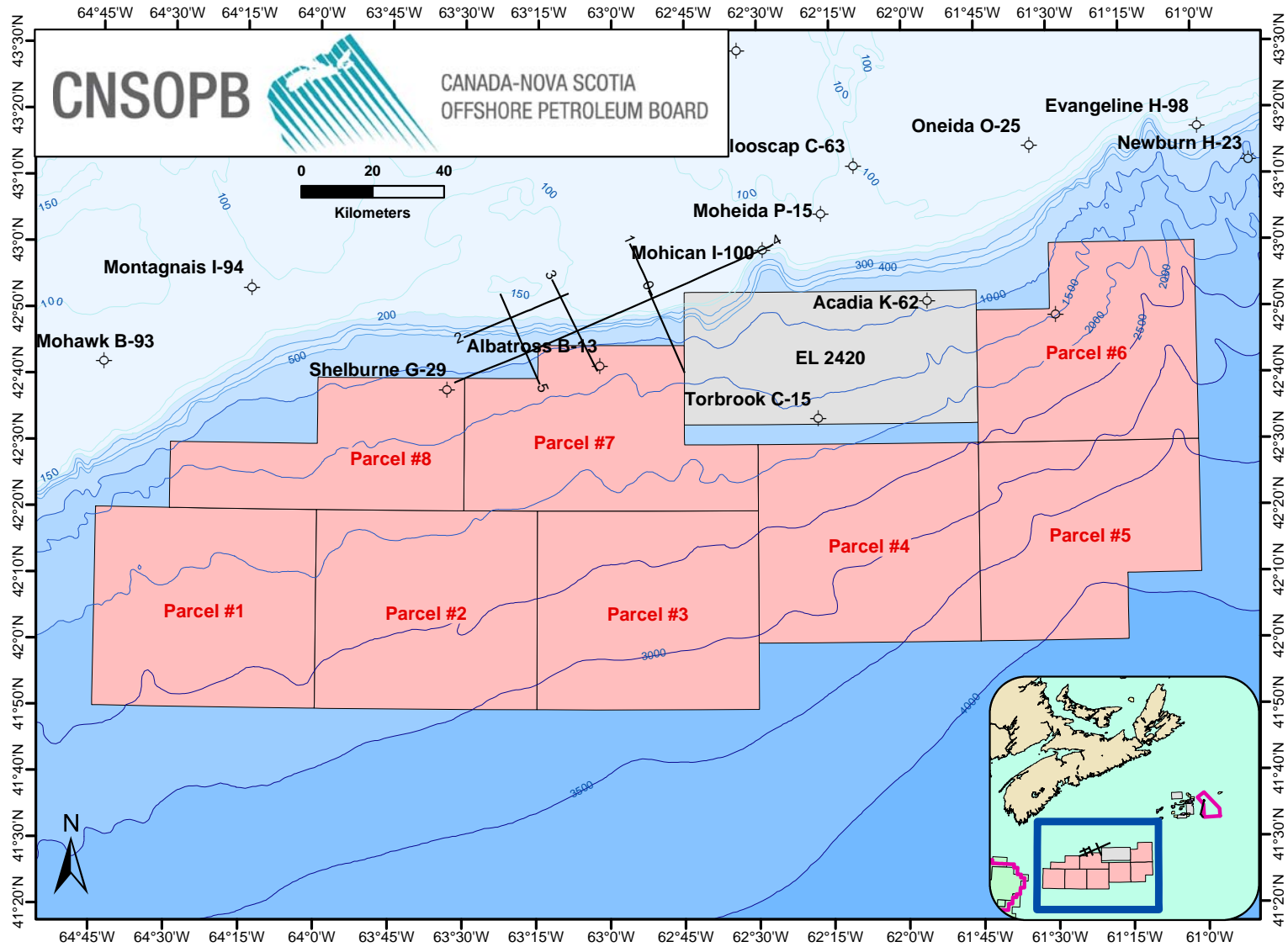


Figure 09: Location Map for 8624-P028-001E

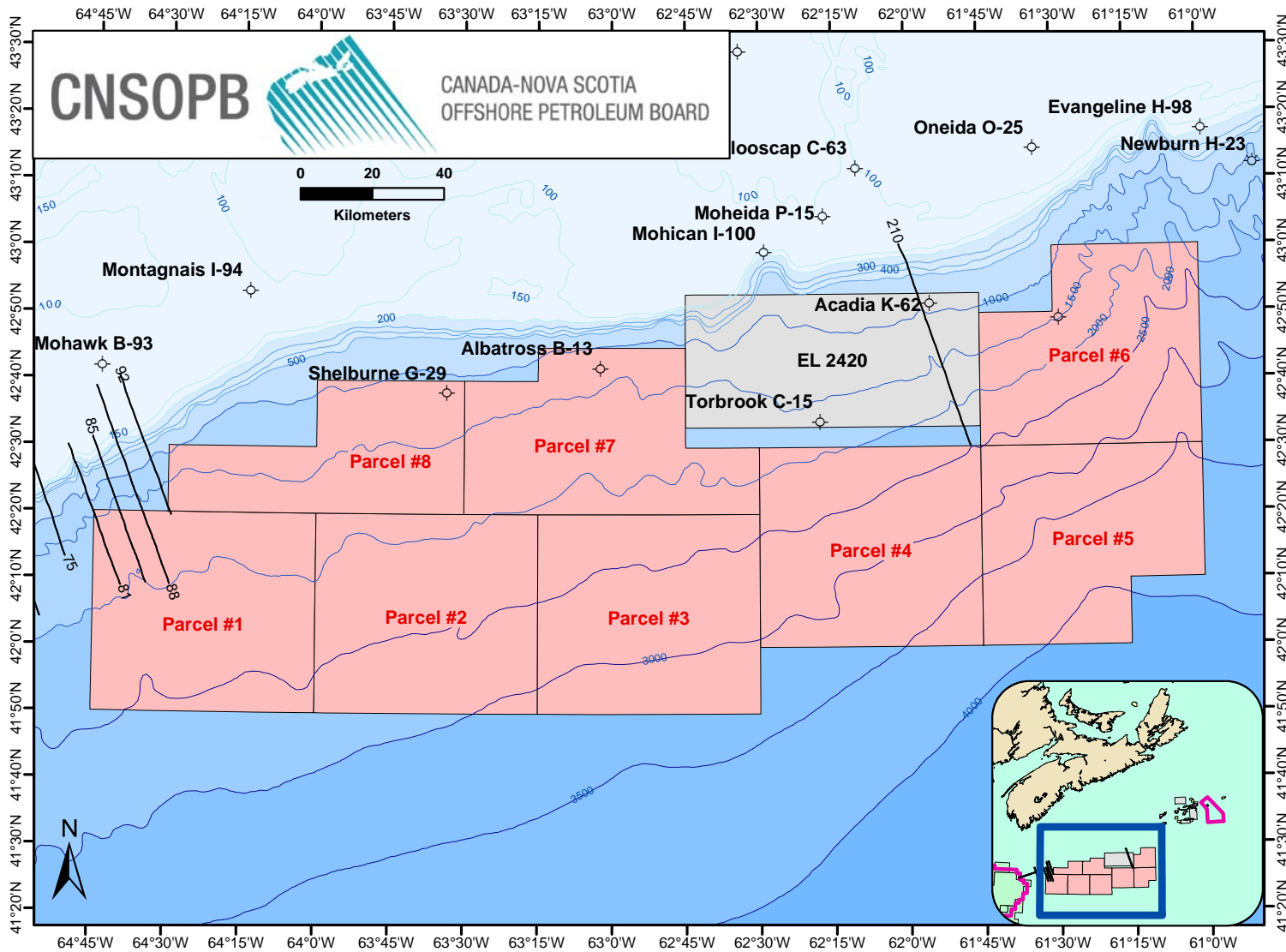


Figure 10: Location Map for 8624-P028-002E

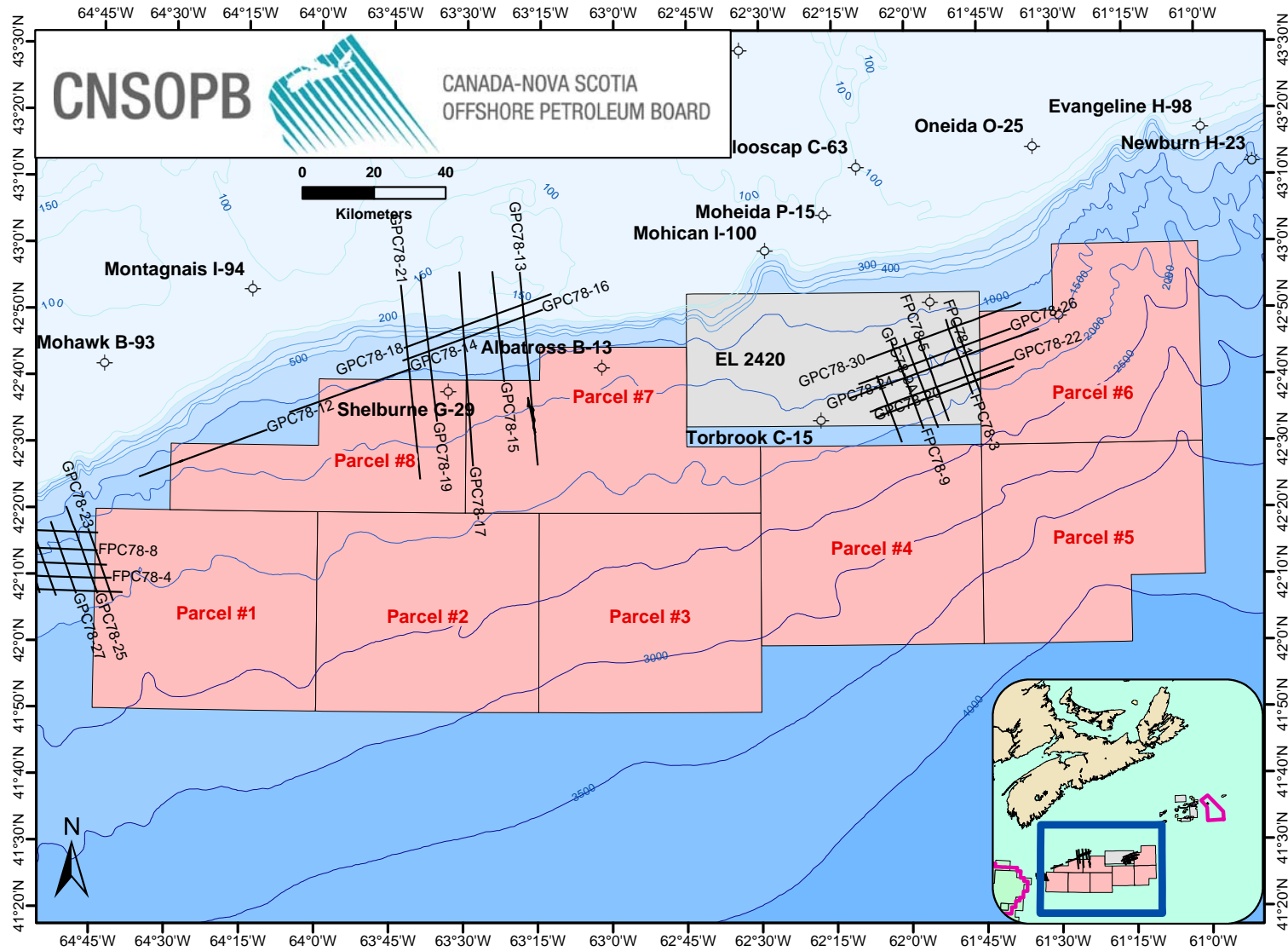


Figure 12: Location Map for 8624-P028-049E

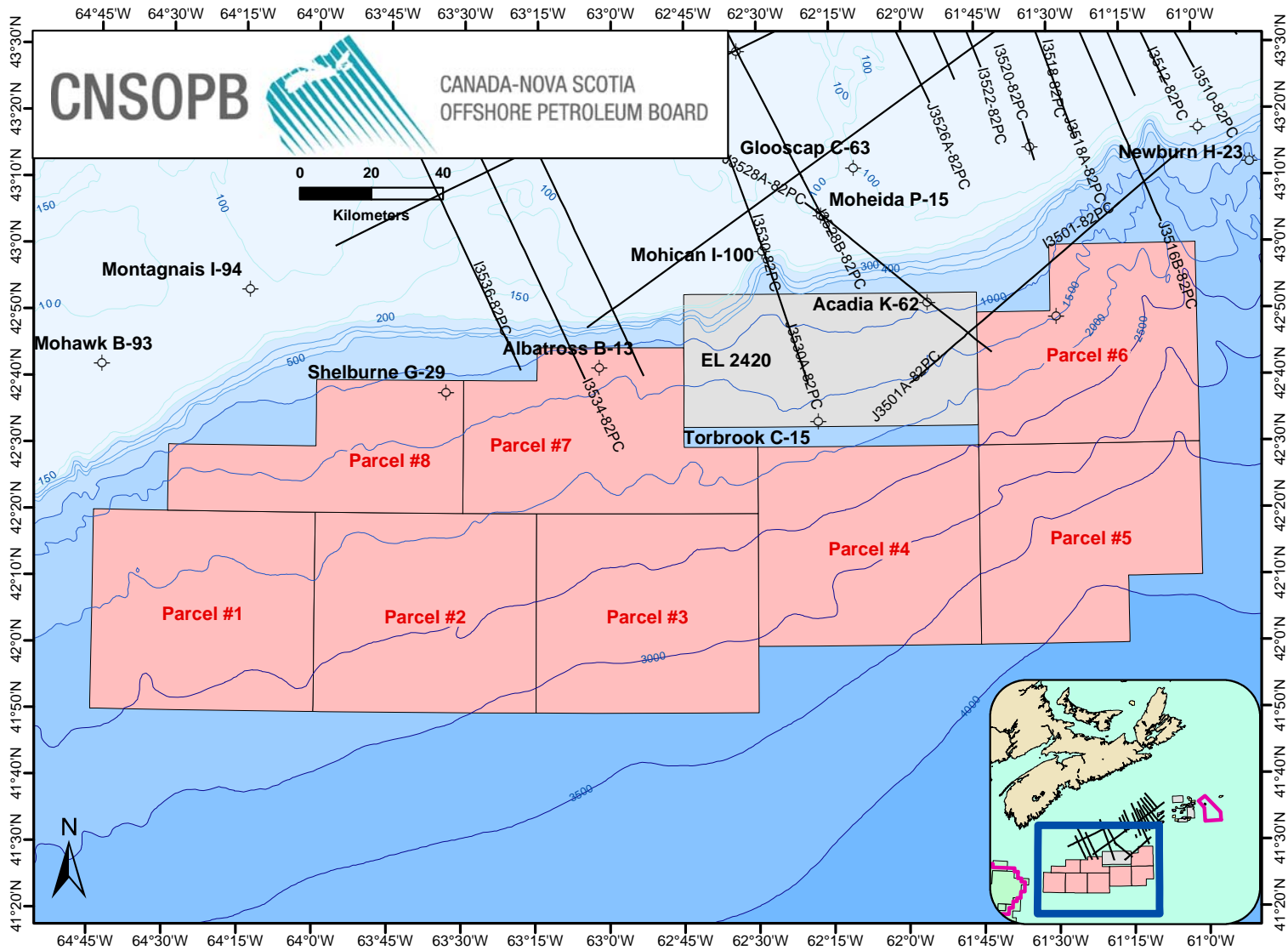


Figure 13: Location Map for 8624-P028-050E

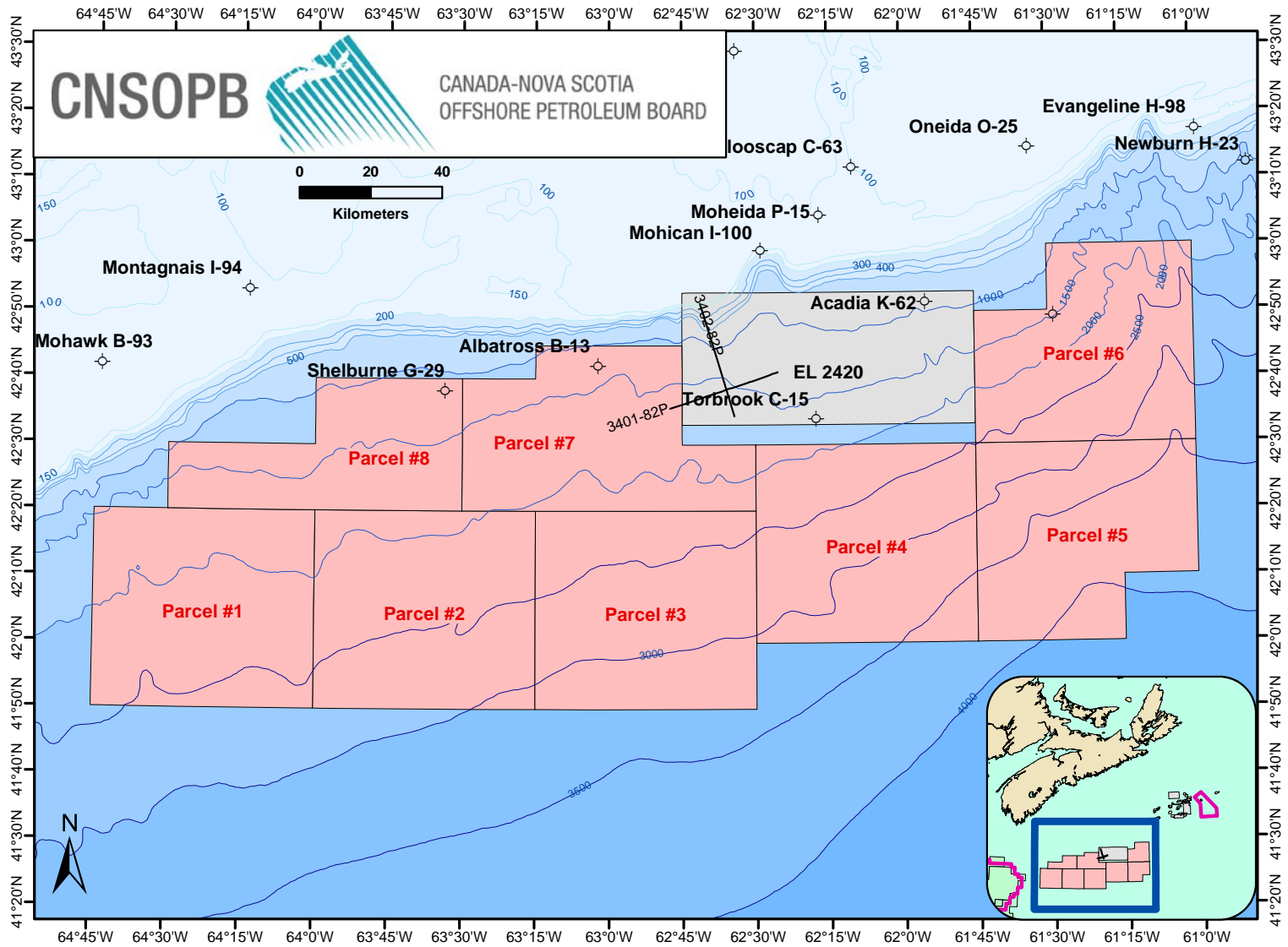


Figure 14: Location Map for 8624-P028-060E

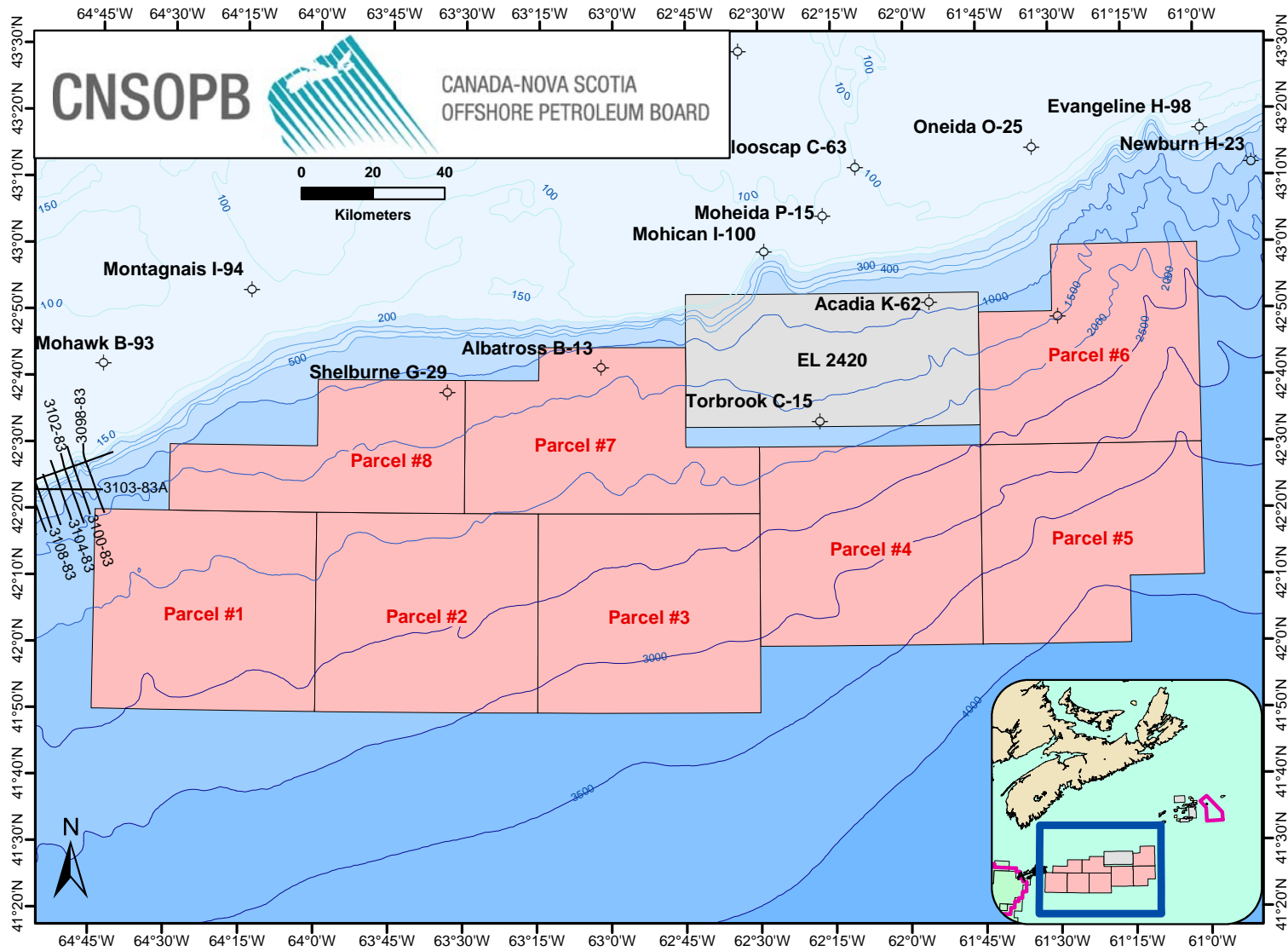


Figure 15: Location Map for 8624-P028-069E

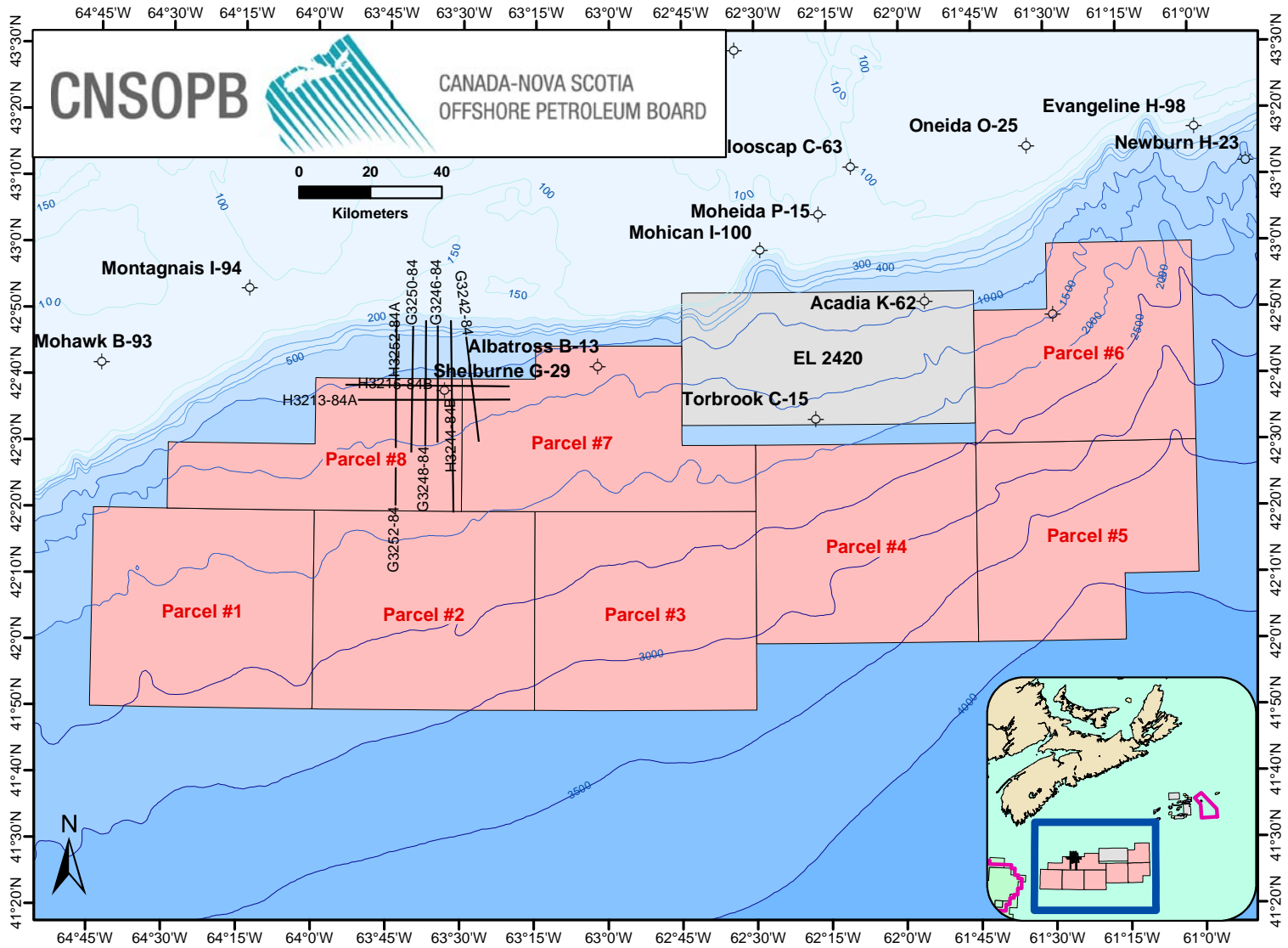


Figure 16: Location Map for 8624-S006-005E,006E

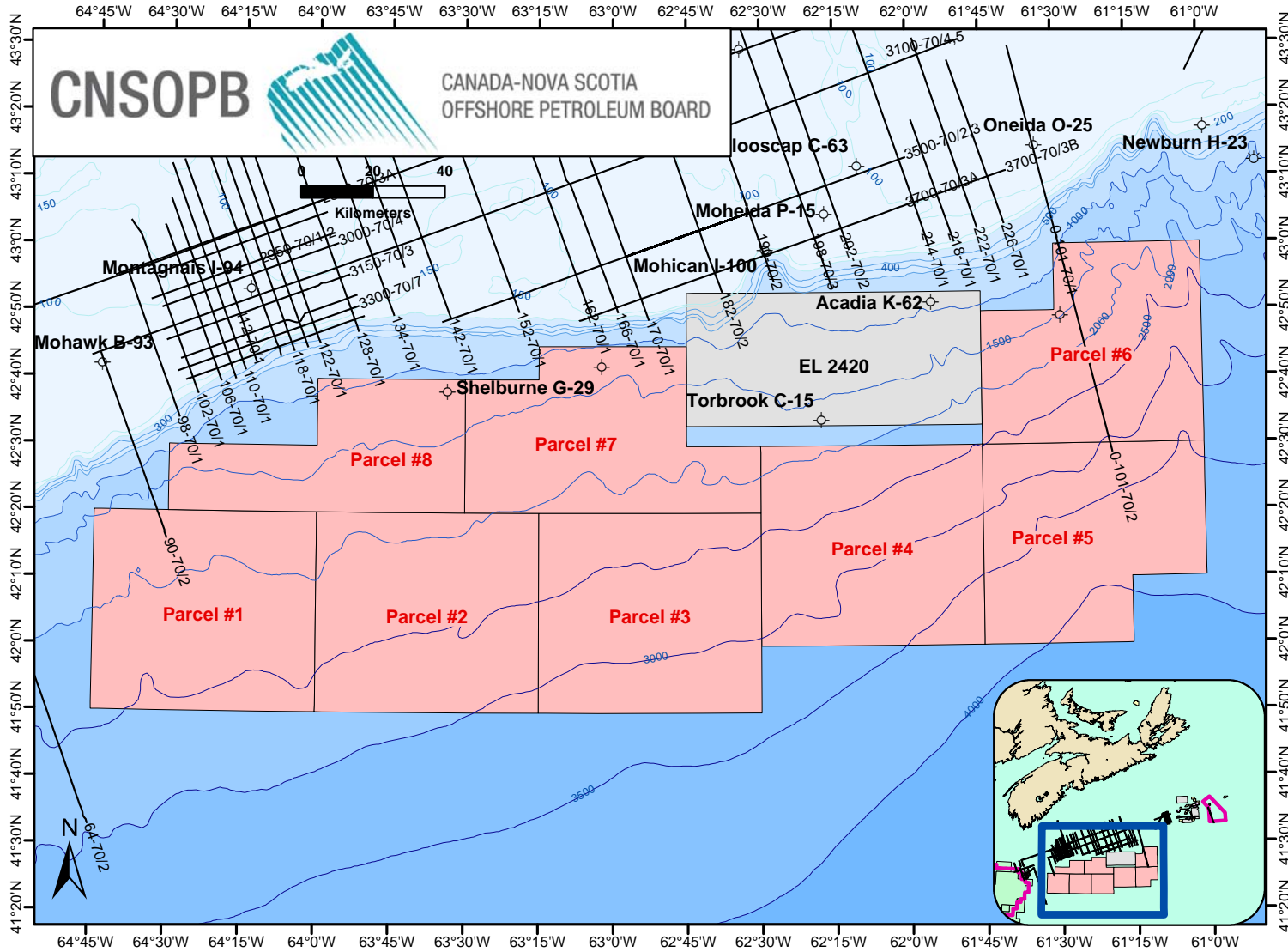


Figure 17: Location Map for 8624-S006-008E

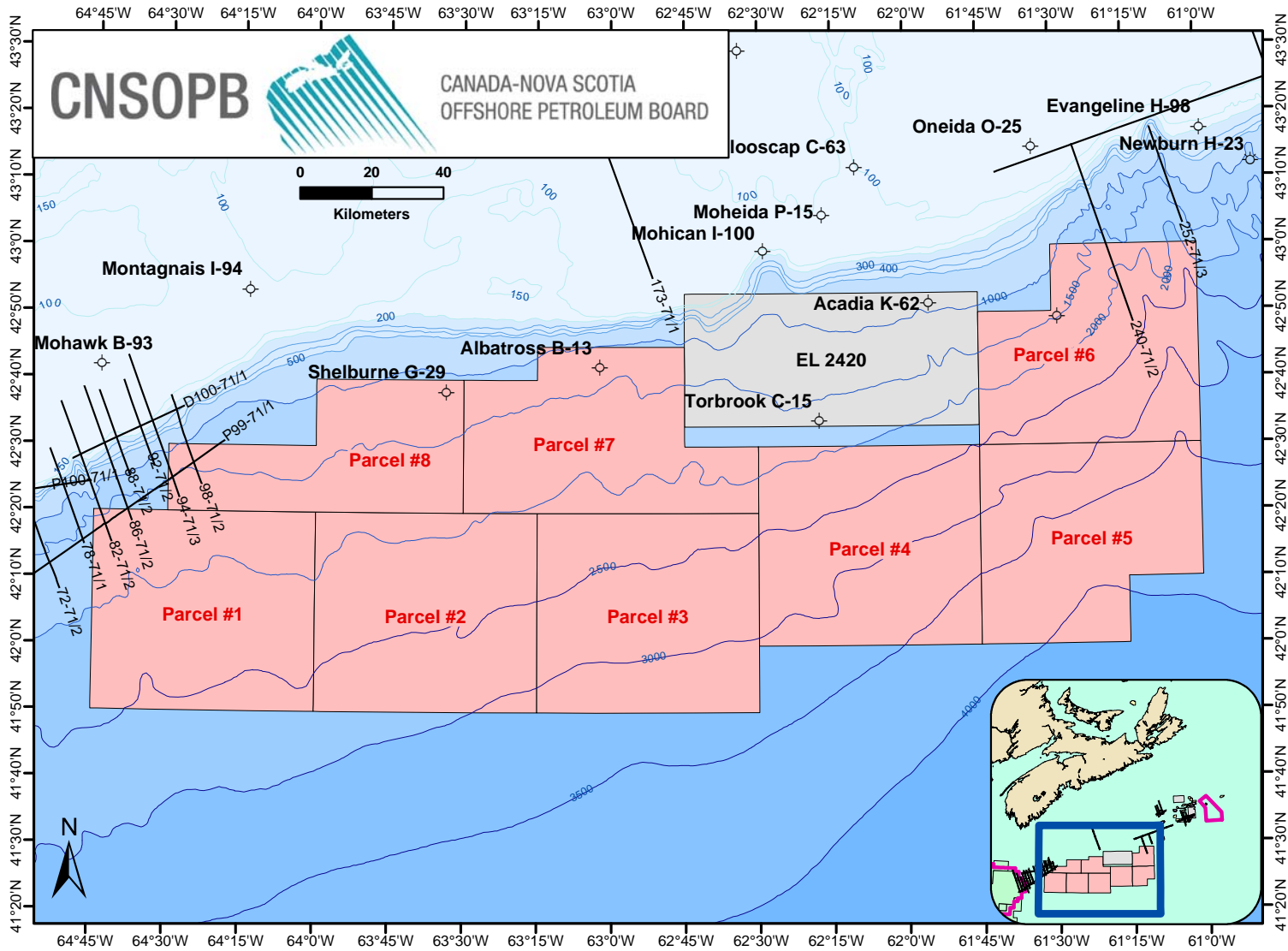


Figure 18: Location Map for 8624-S006-012E

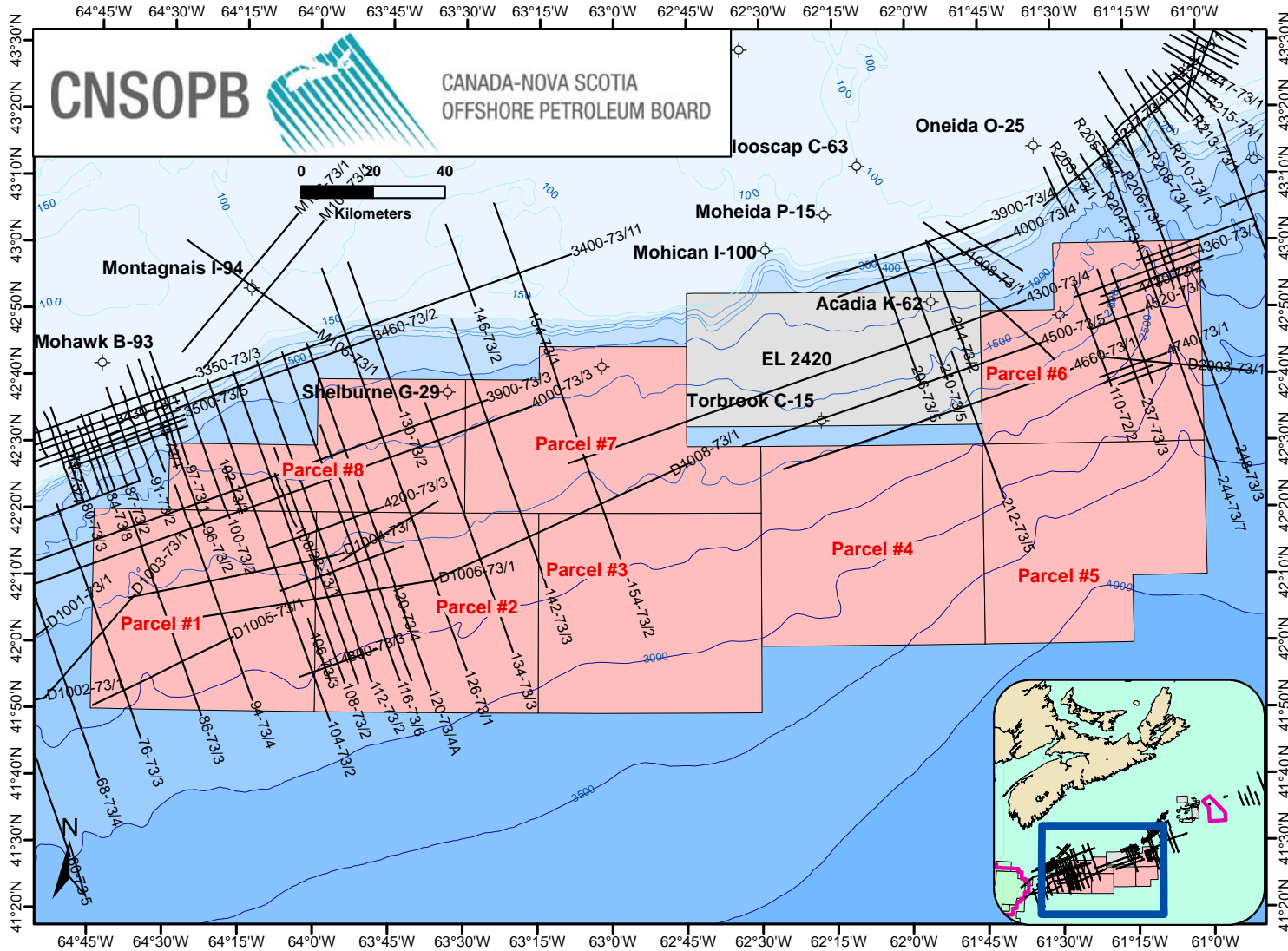


Figure 19: Location Map for 8624-S006-025E,026E

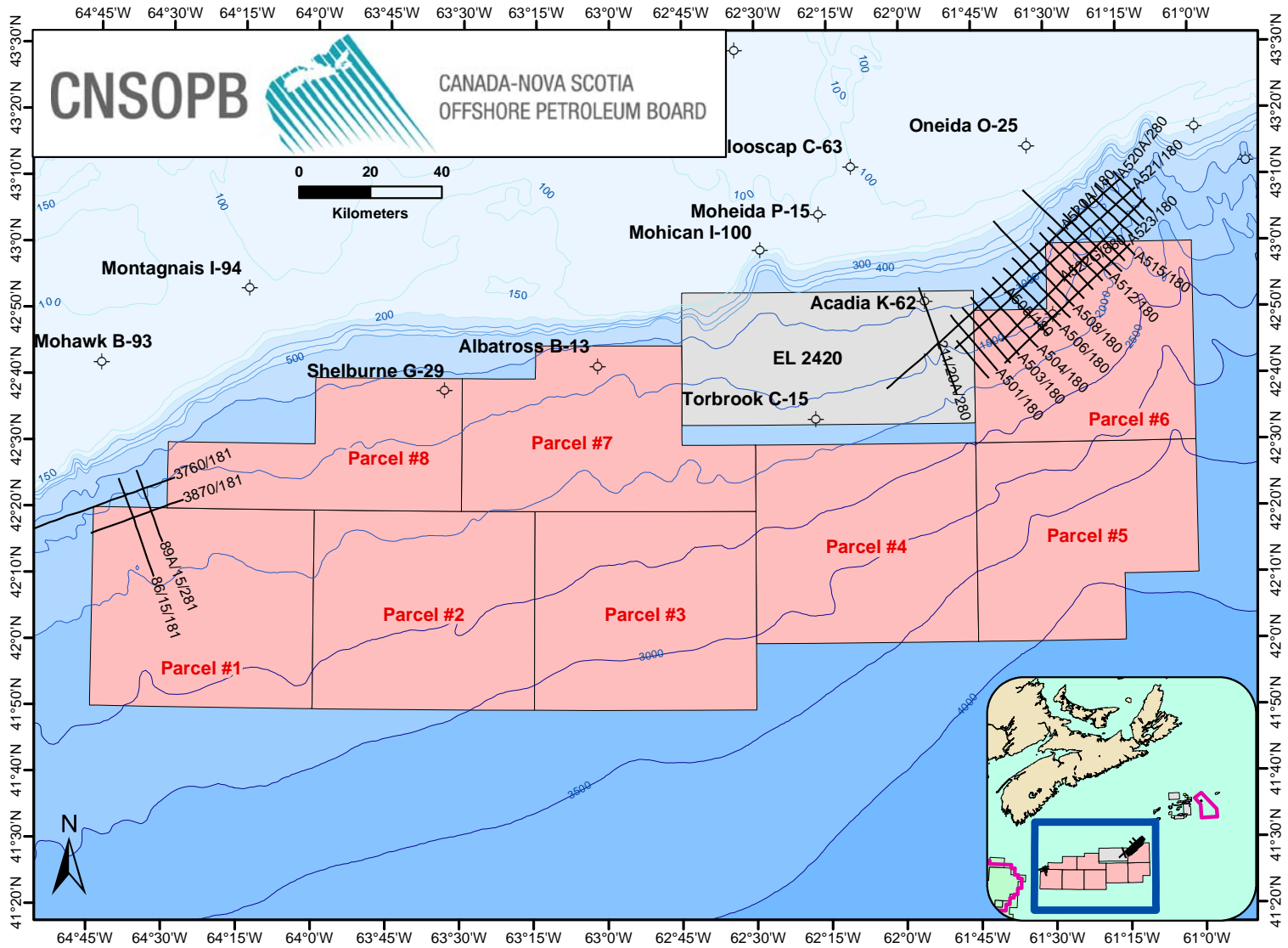


Figure 20: Location Map for 8624-S006-028E, 031E

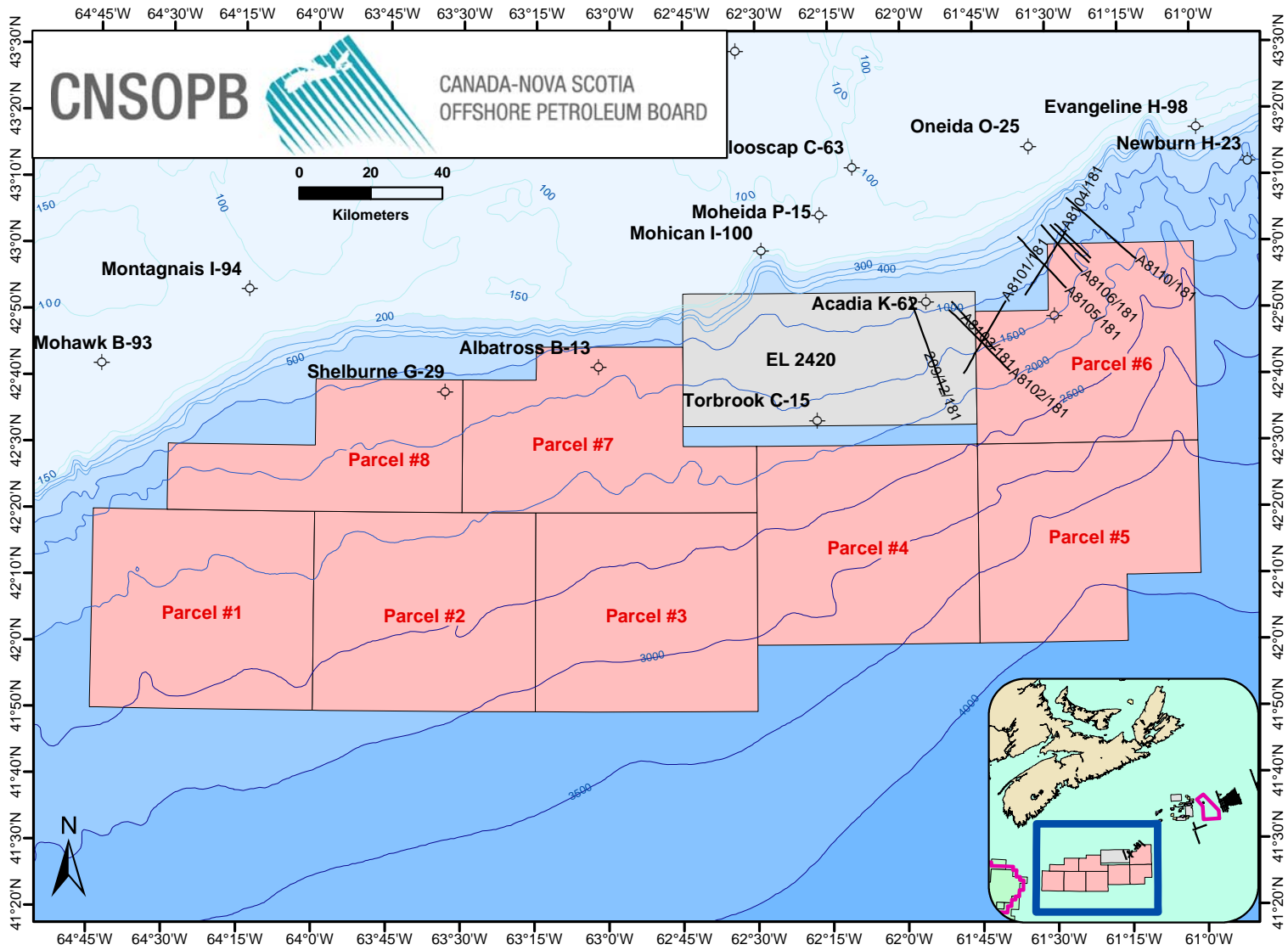


Figure 21: Location Map for 8624-S006-032E

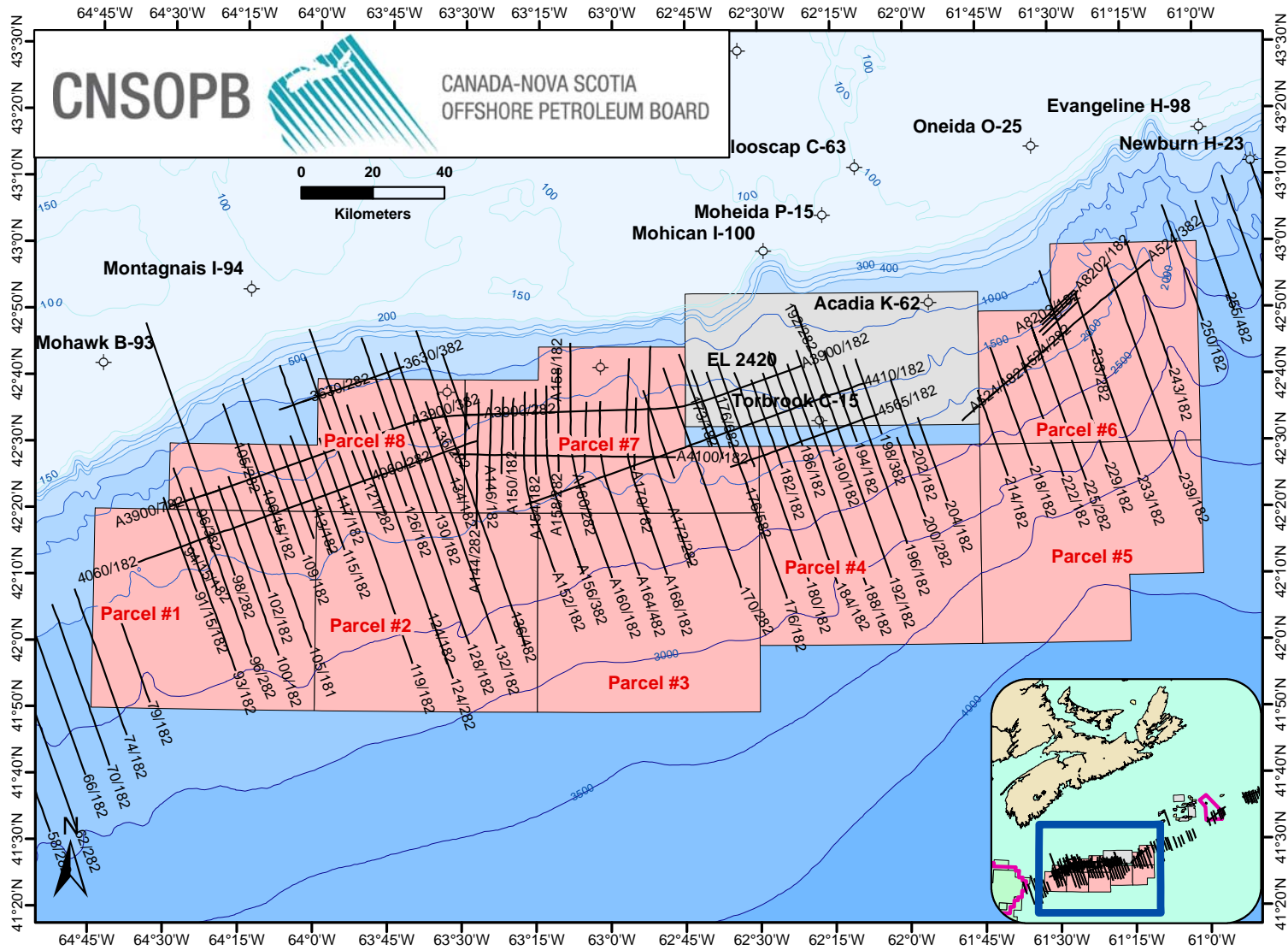


Figure 22: Location Map for 8624-S006-033E

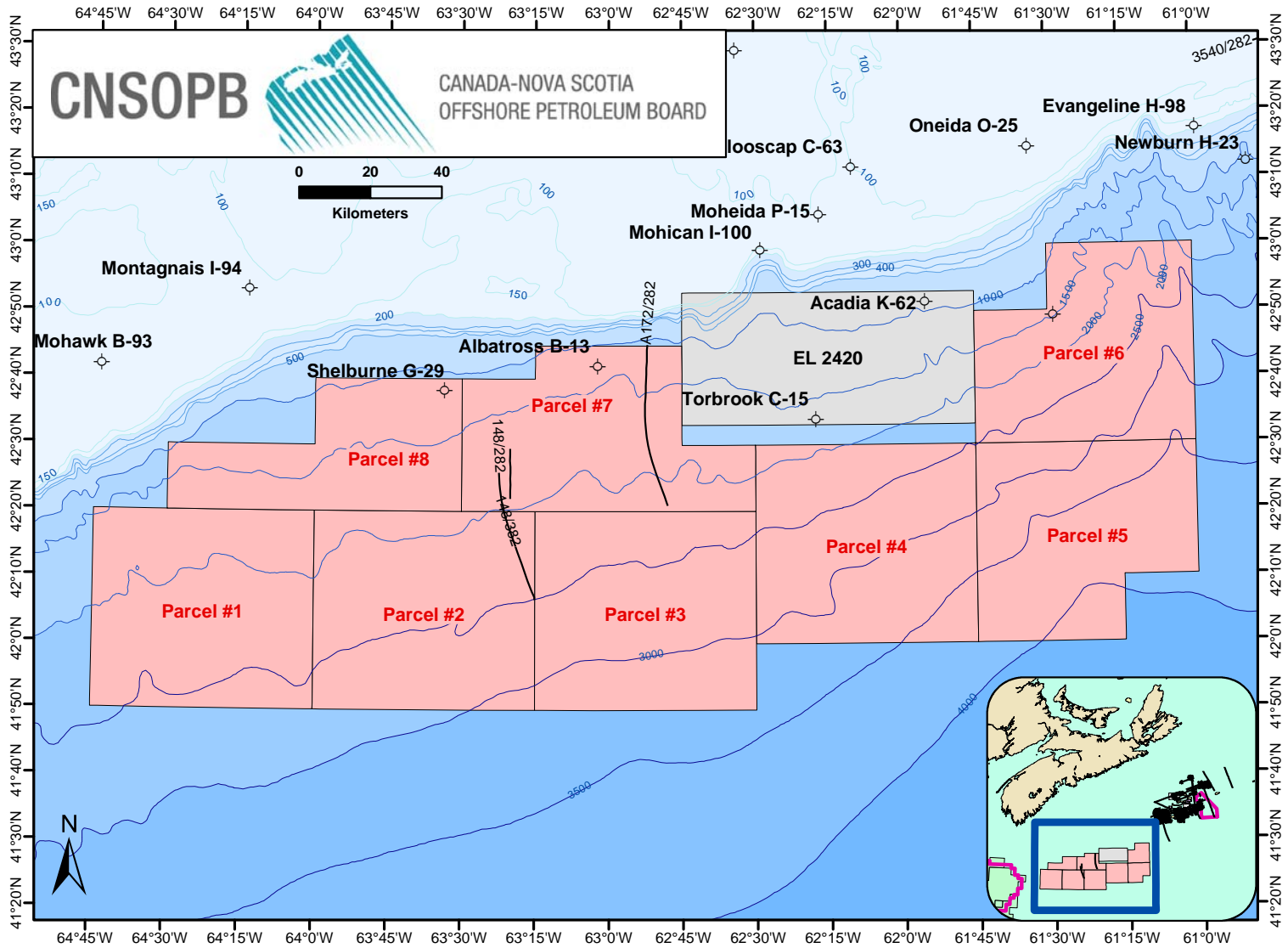


Figure 23: Location Map for 8624-S006-036E

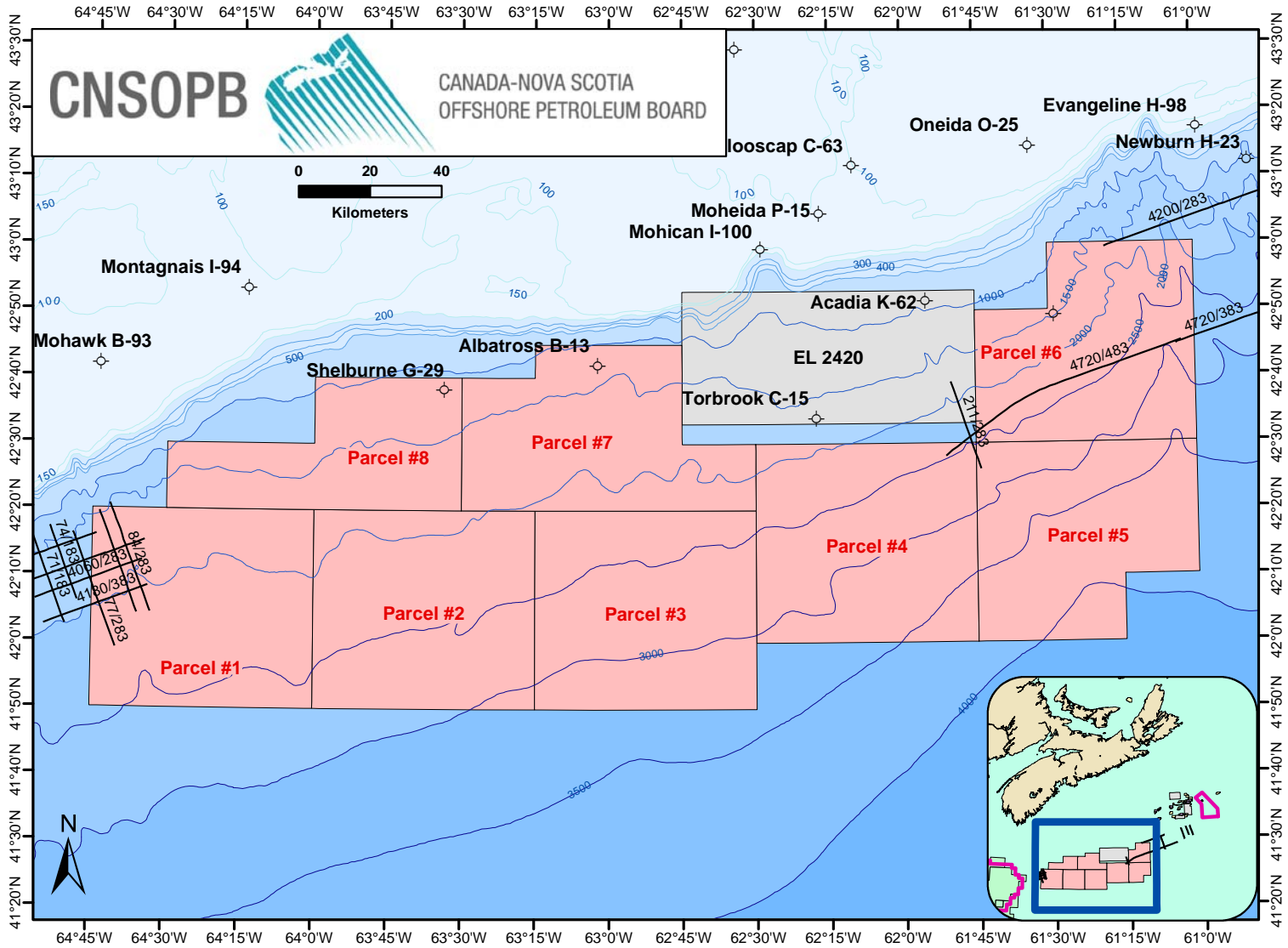


Figure 24: Location Map for 8624-S006-042E

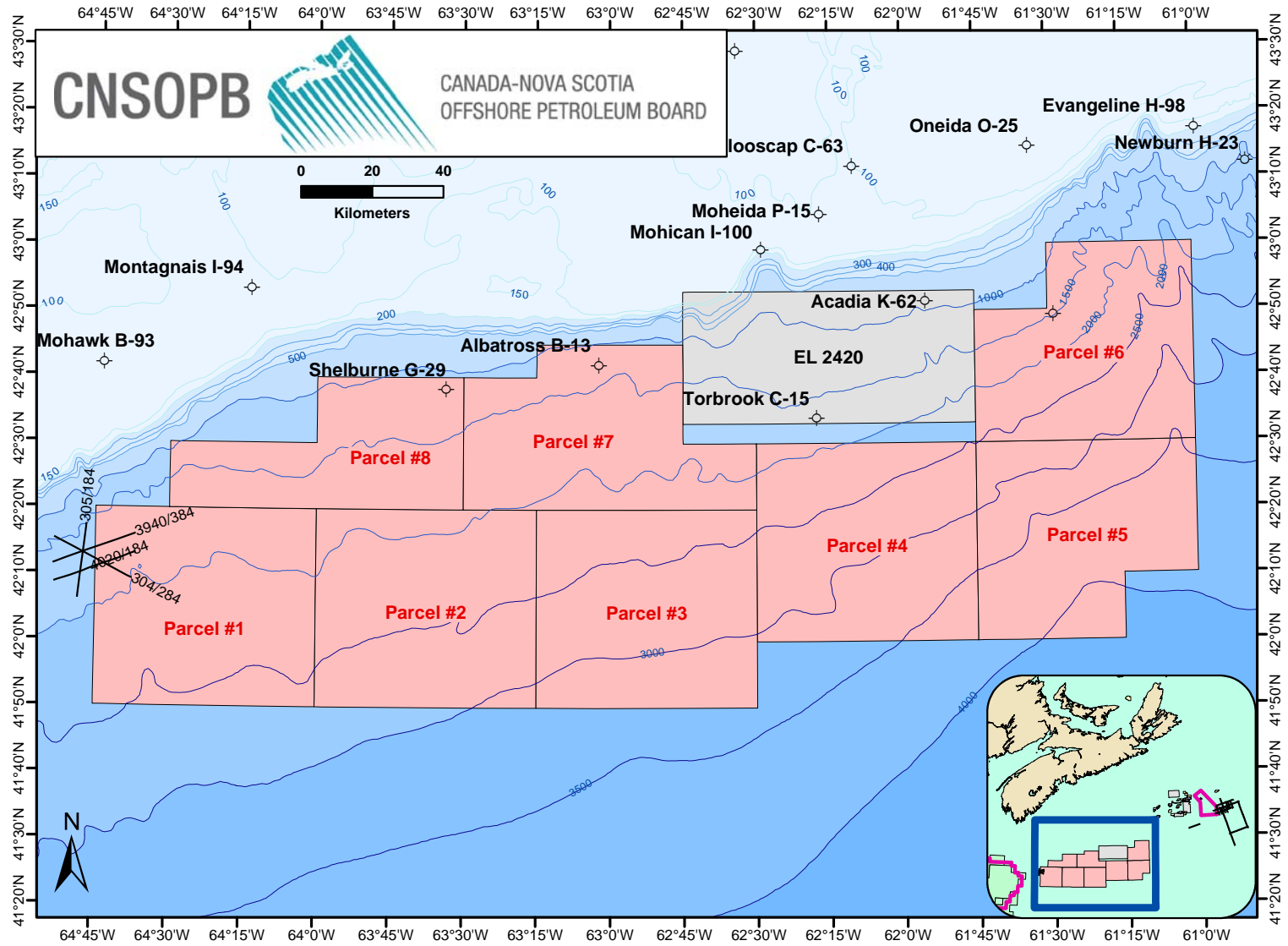


Figure 25: Location Map for 8624-T021-006E

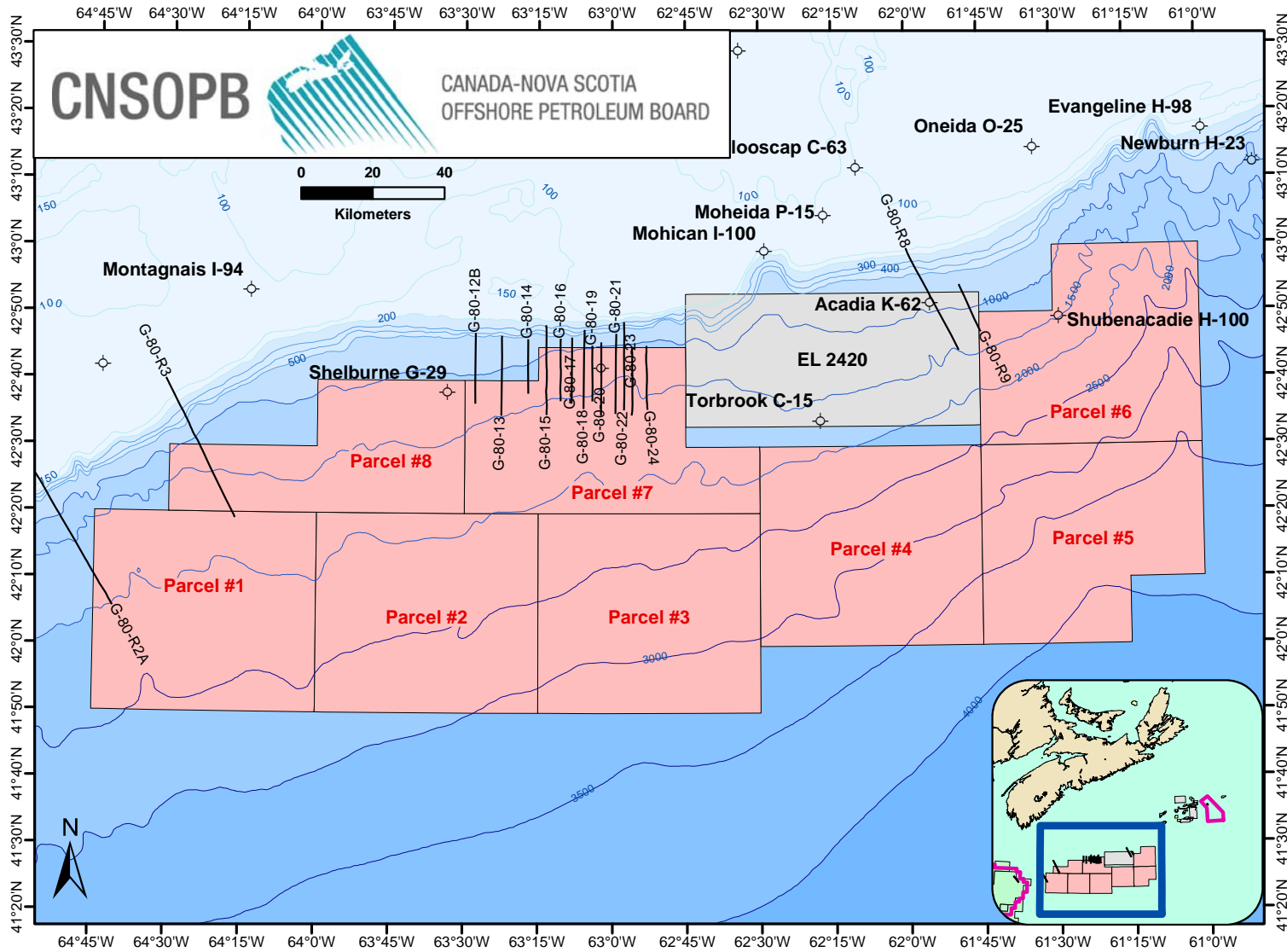


Figure 26: Location Map for 8624-T021-008E

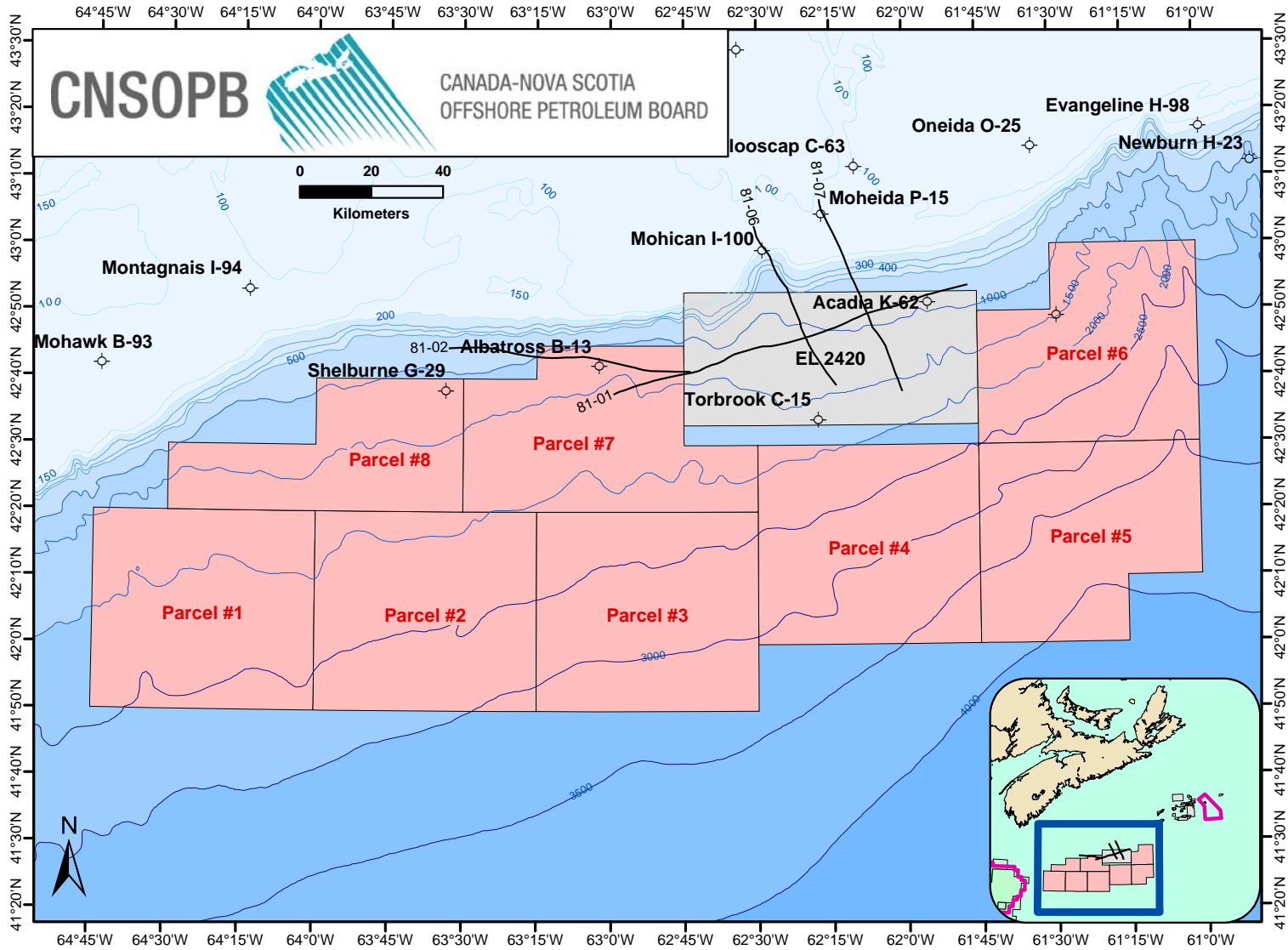


Figure 27: Location Map for 8624-W013-001P

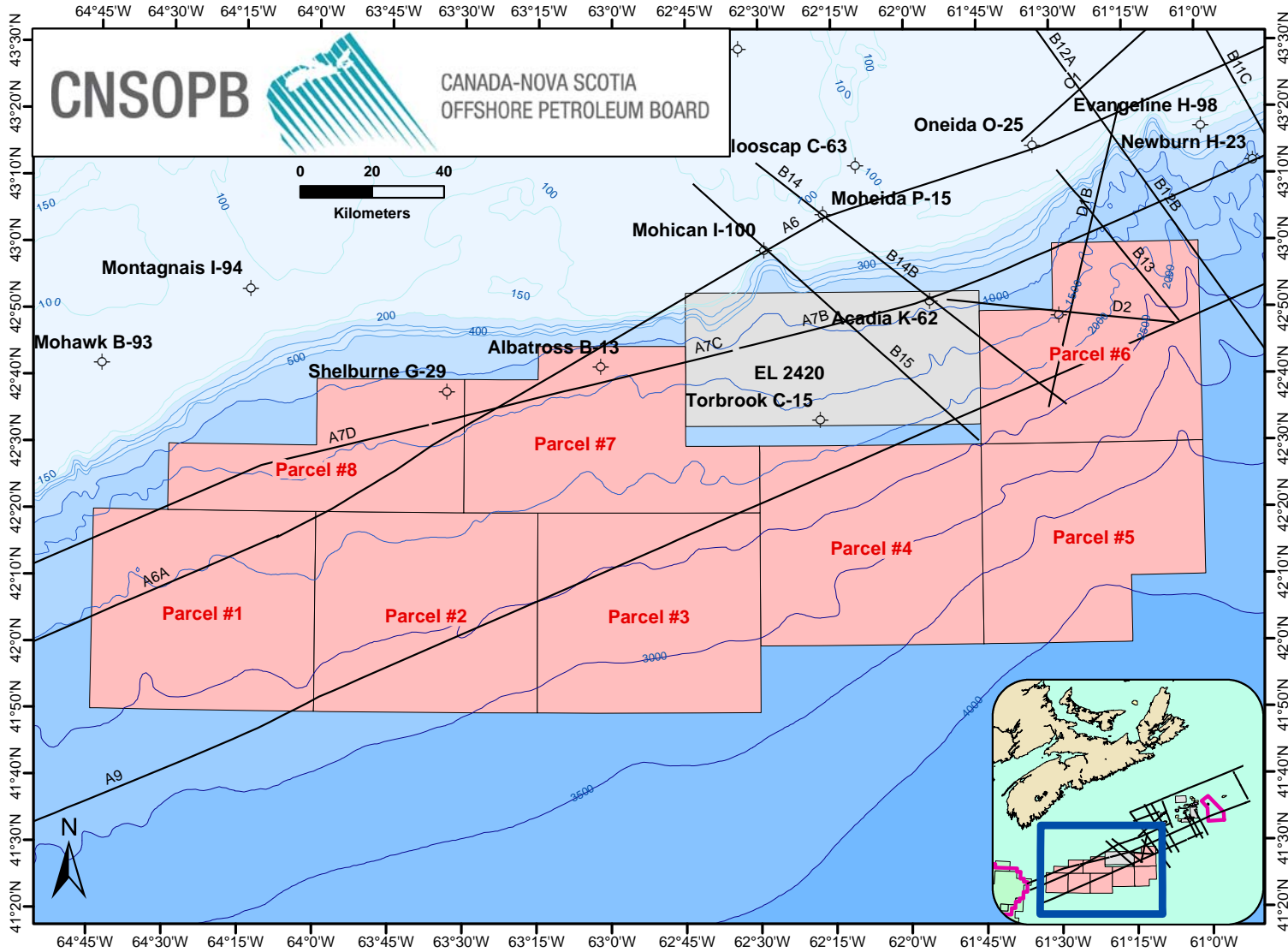


Figure 28: Location Map for 8624-W013-005P

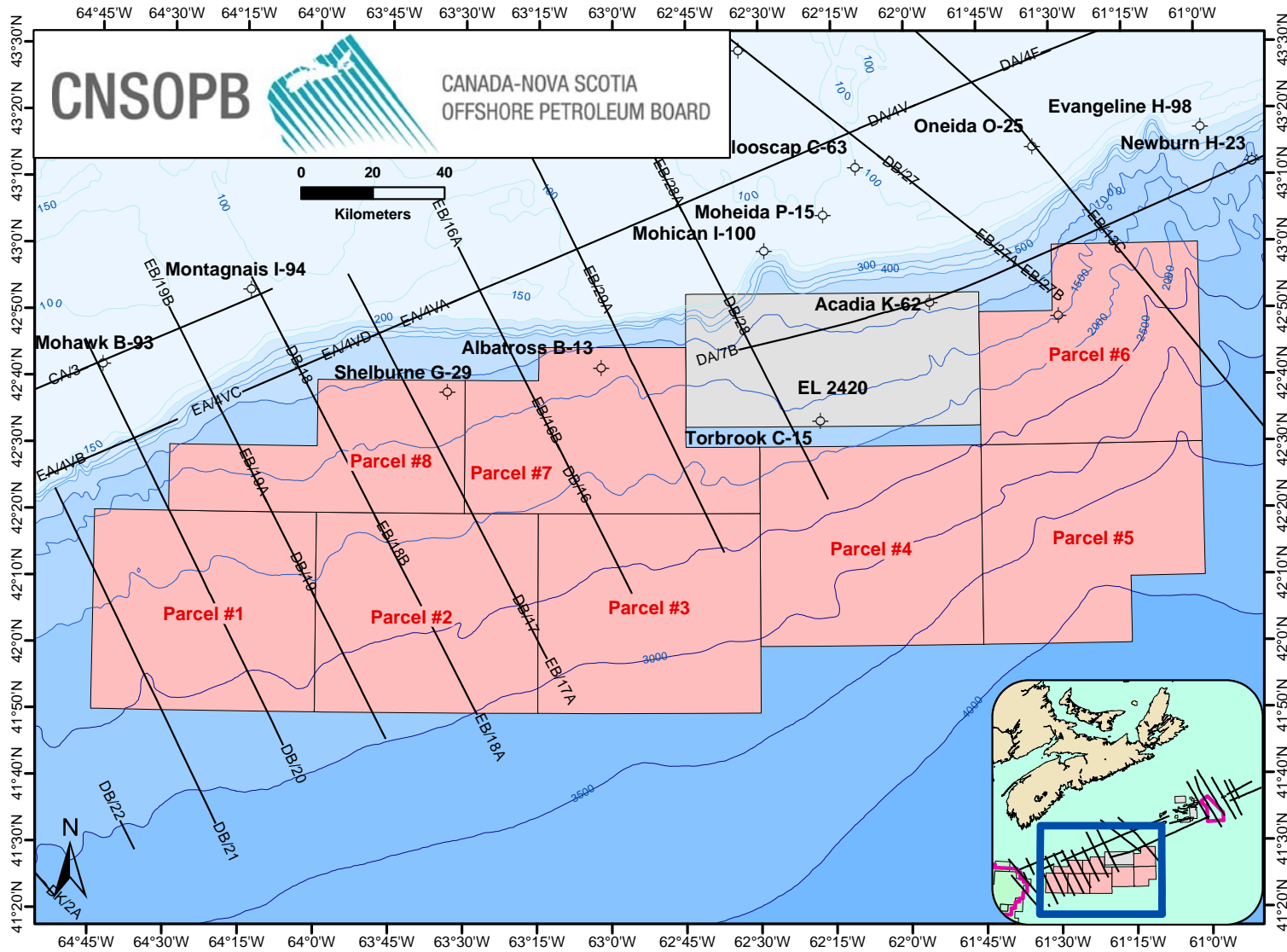


Figure 29: Location Map for NS24-G005-001P

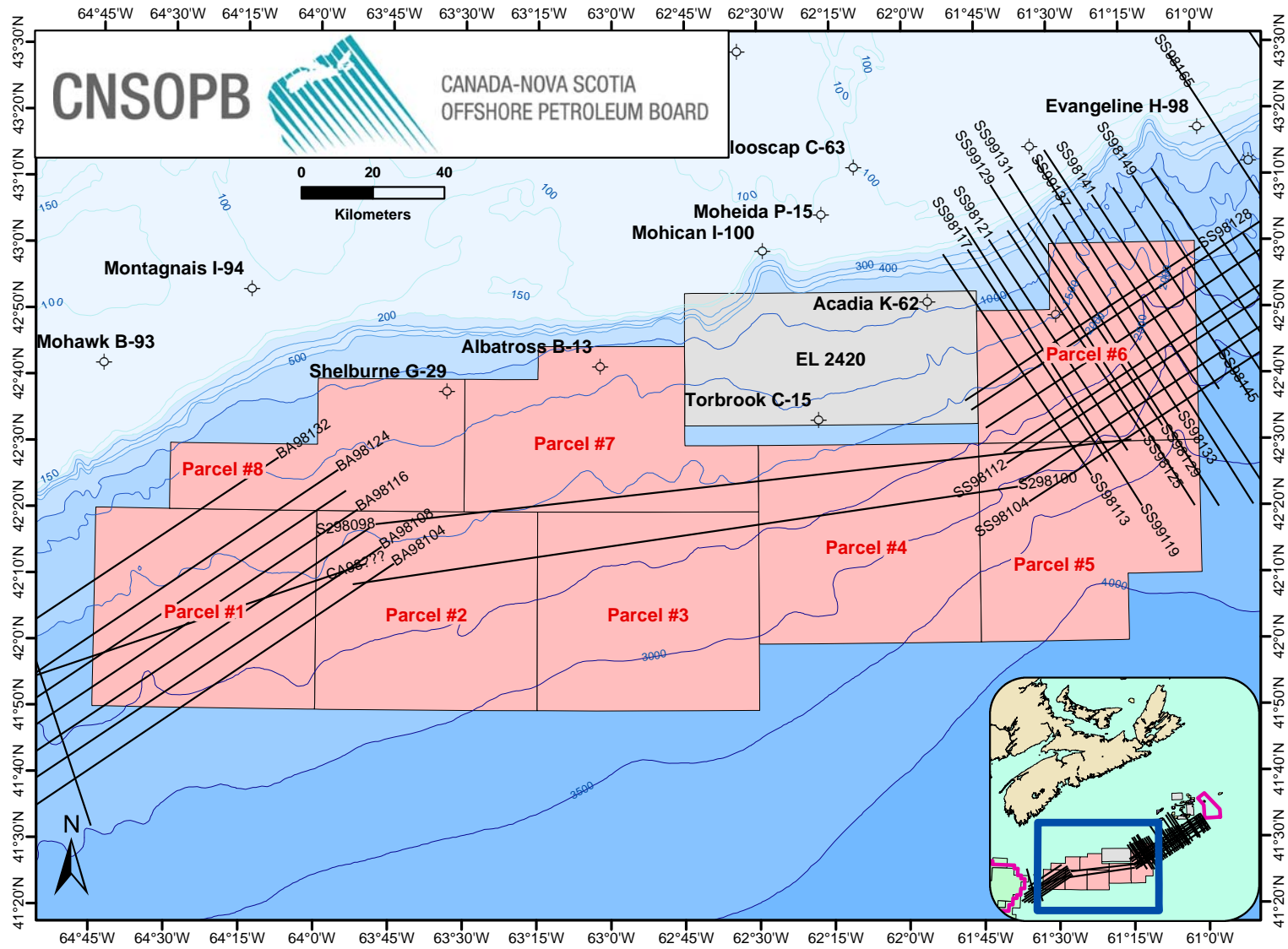


Figure 30: Location Map for NS24-G005-002P

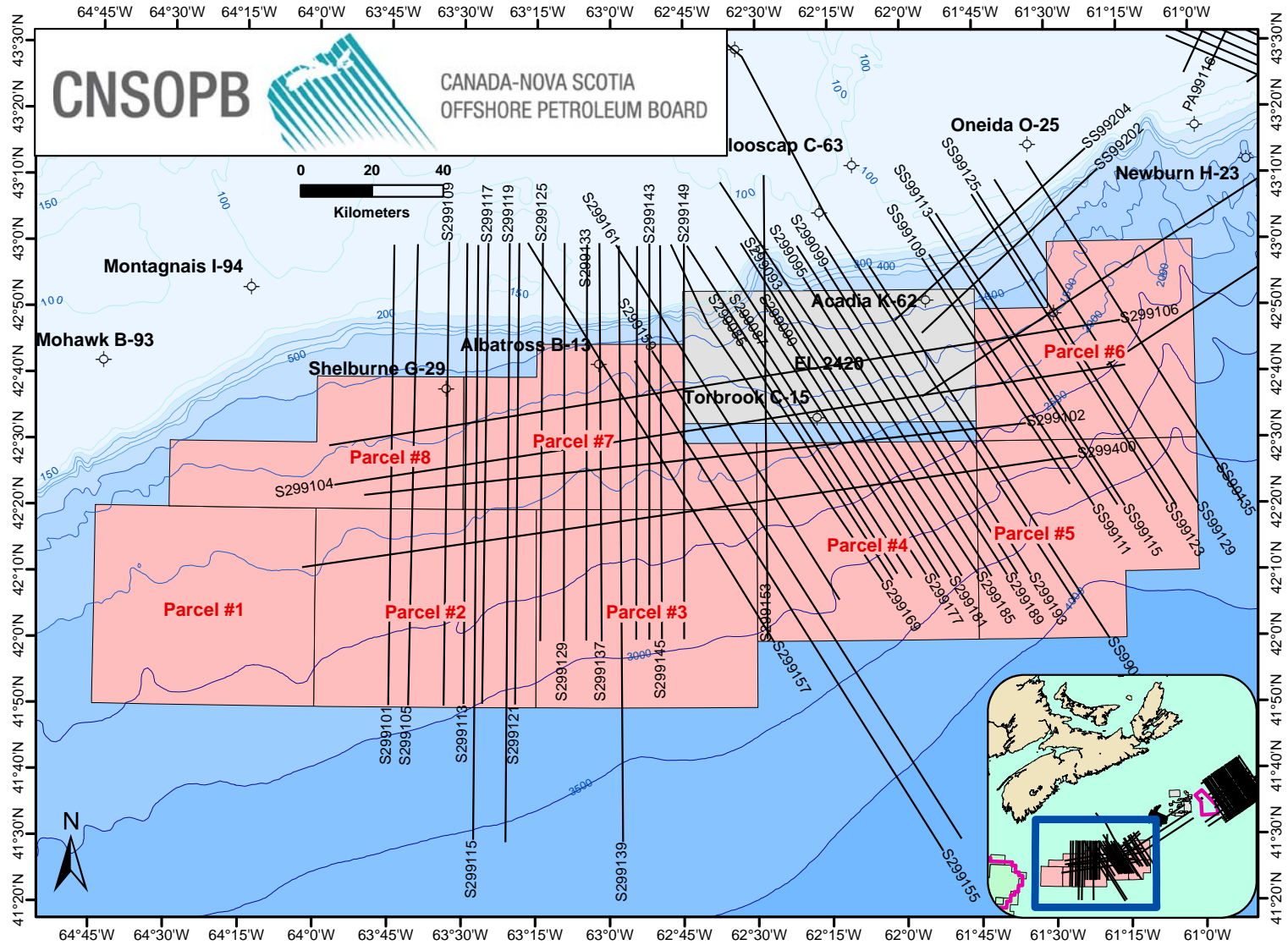


Figure 31: Location Map for NS24-G005-008P (Confidential)

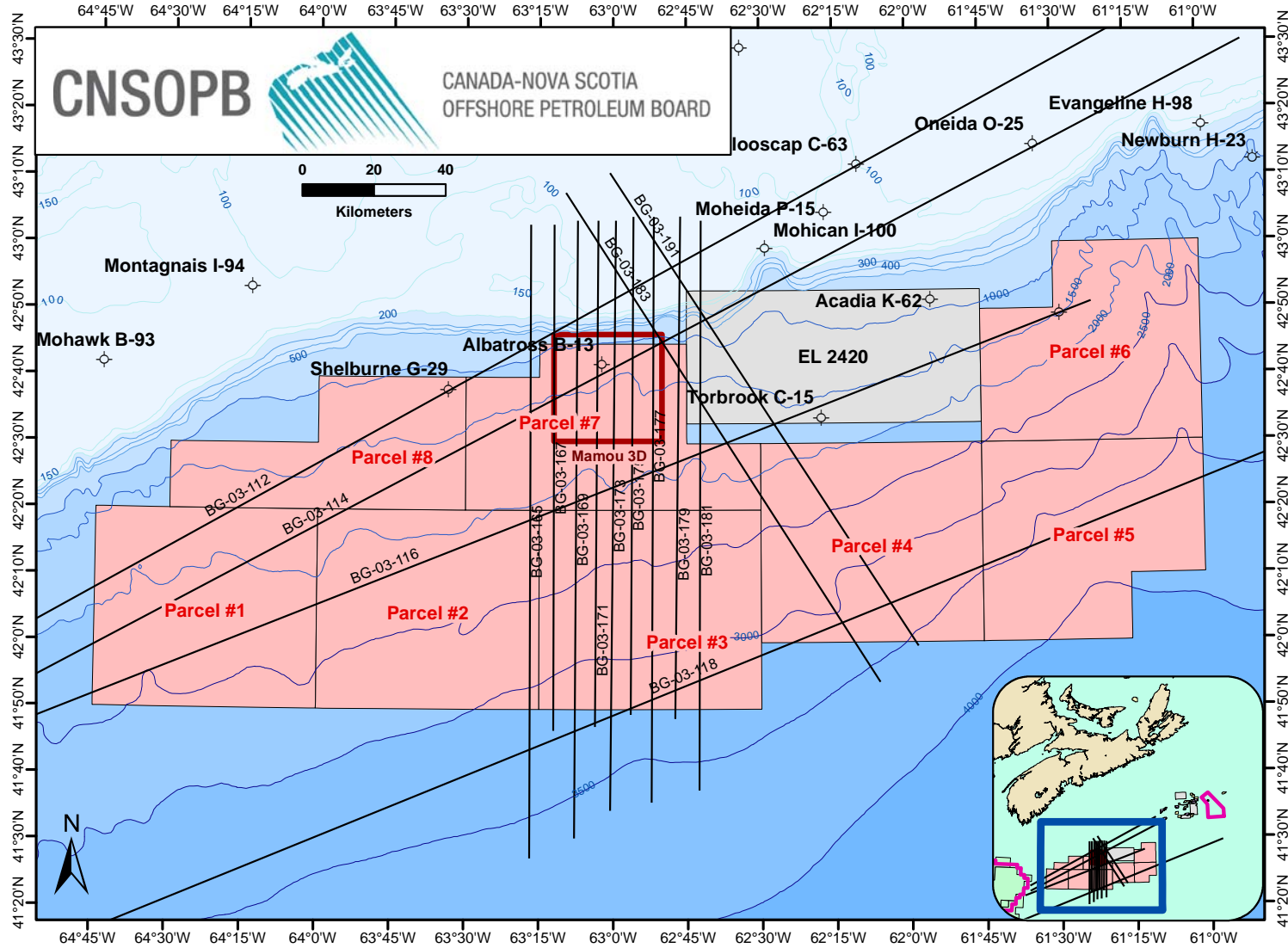


Figure 32: Location Map for NS24-G026-001P,G065-001P

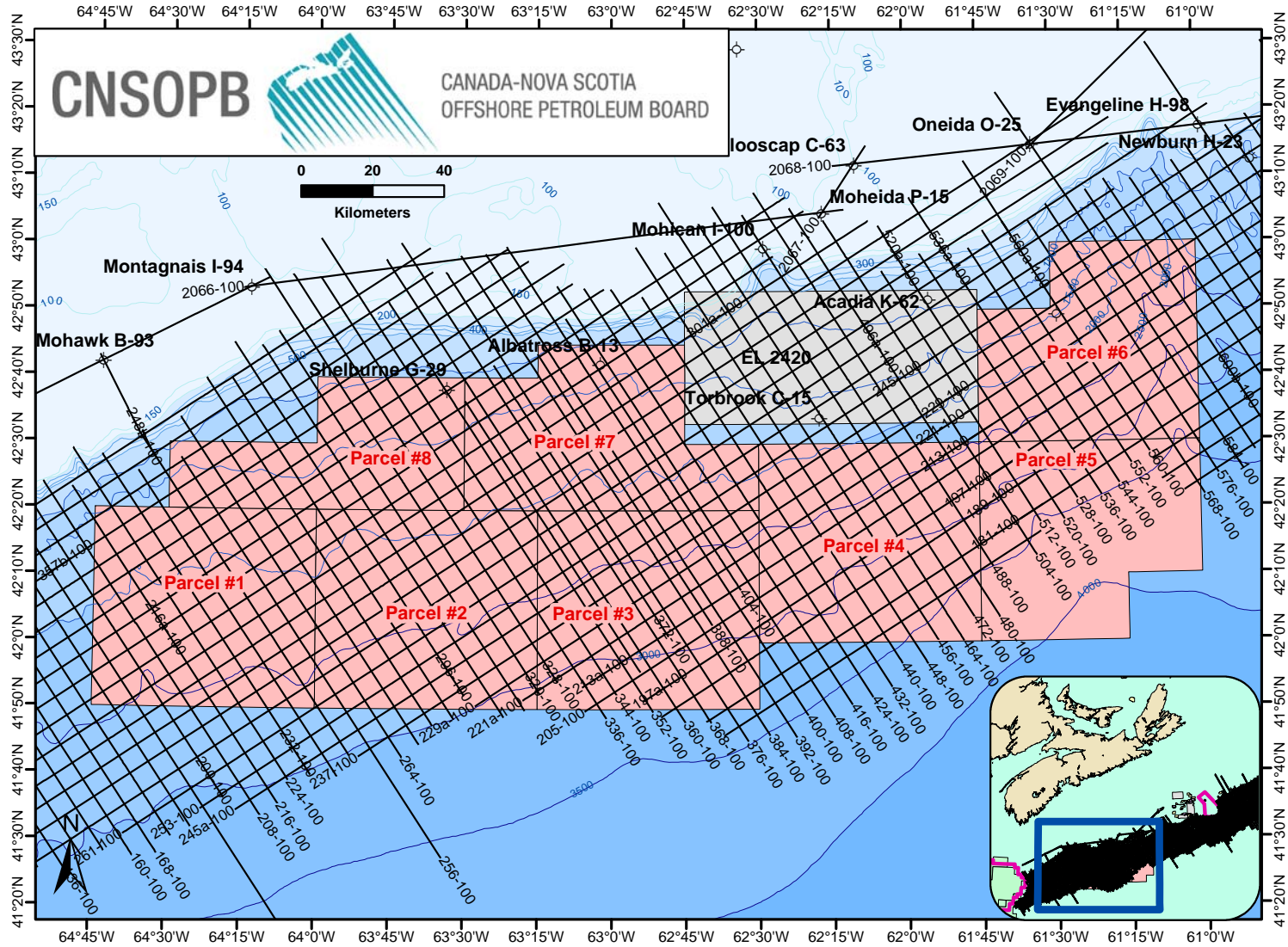


Figure 33: Location Map for NS24-G075-003P (Confidential)

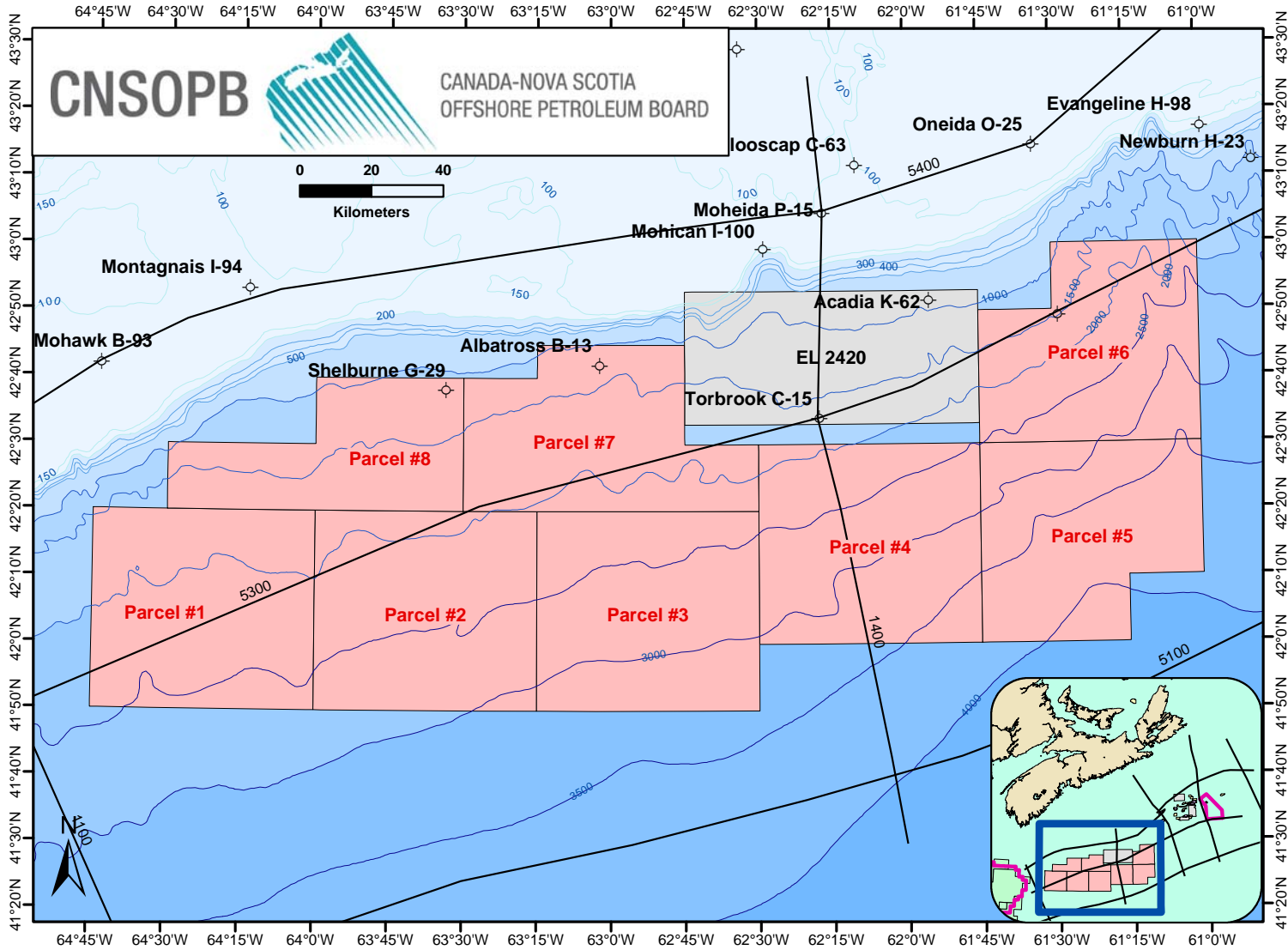


Figure 34: Location Map for NS24-P003-002E

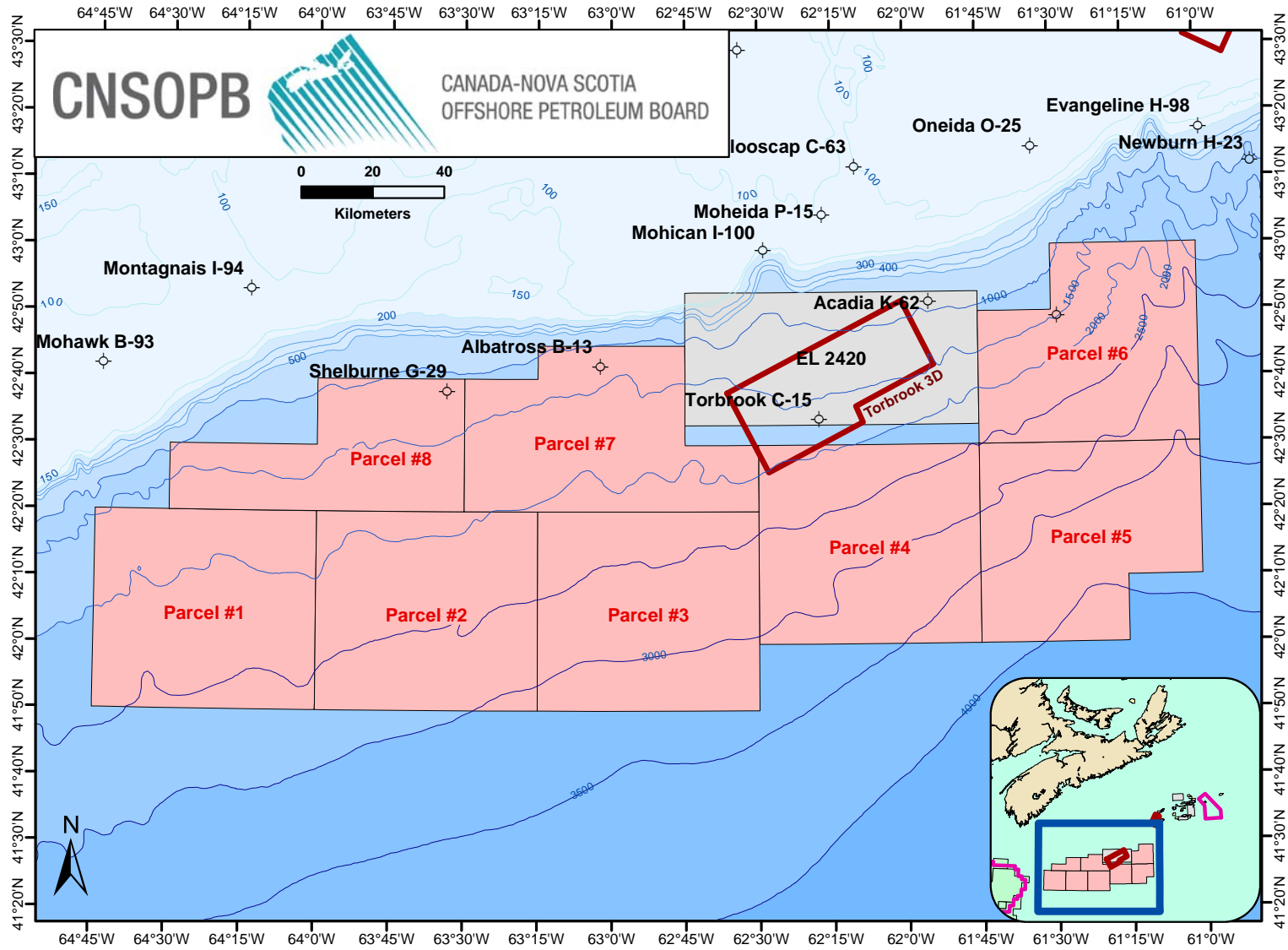


Figure 35: Location Map for NS24-P003-004E

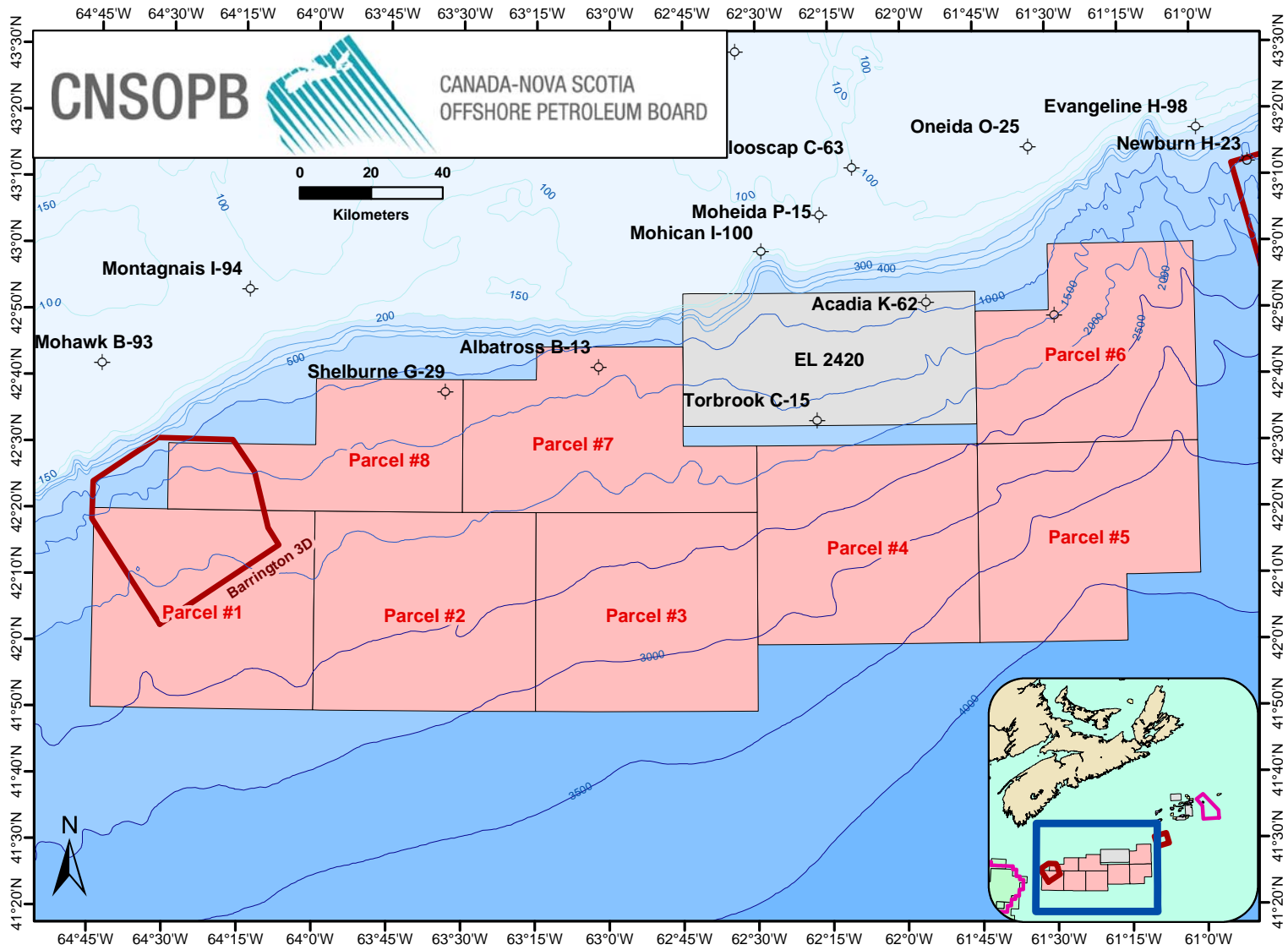


Figure 36: Location Map for NS24-S006-001E, 002E

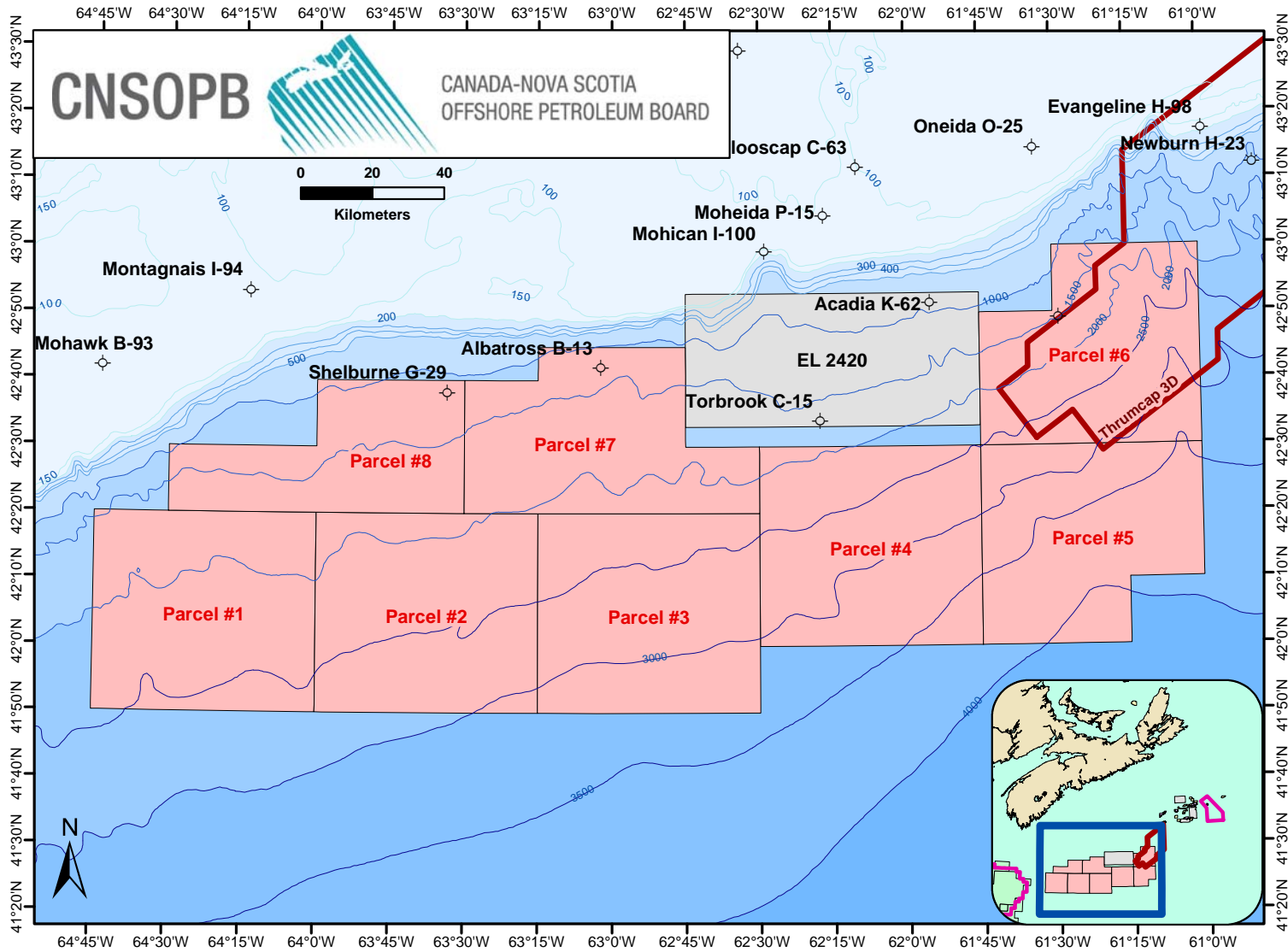


Figure 37: Location map for NS24-T063-004P (Confidential)

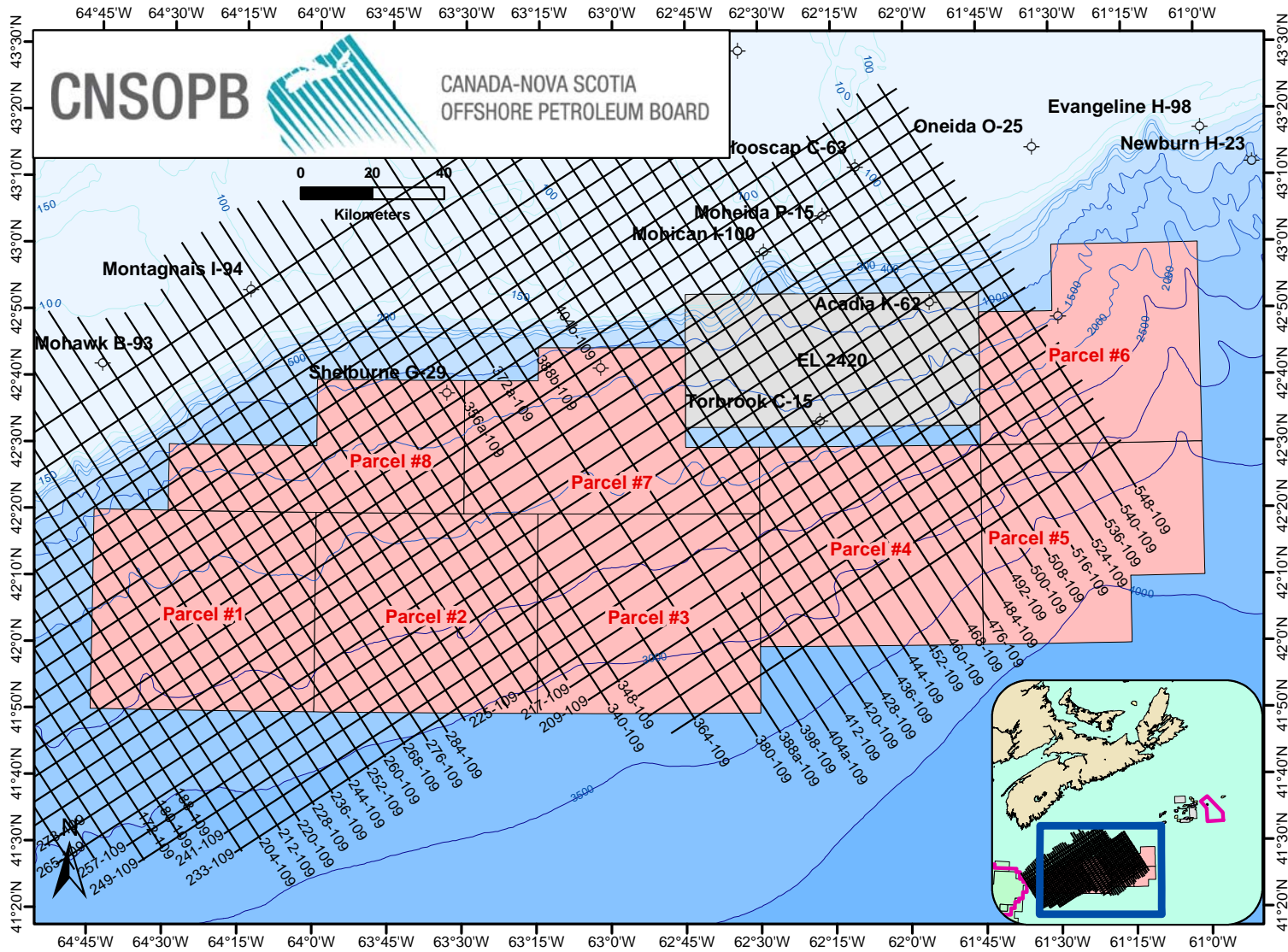


Figure 38: Location map for NS24-W013-001P

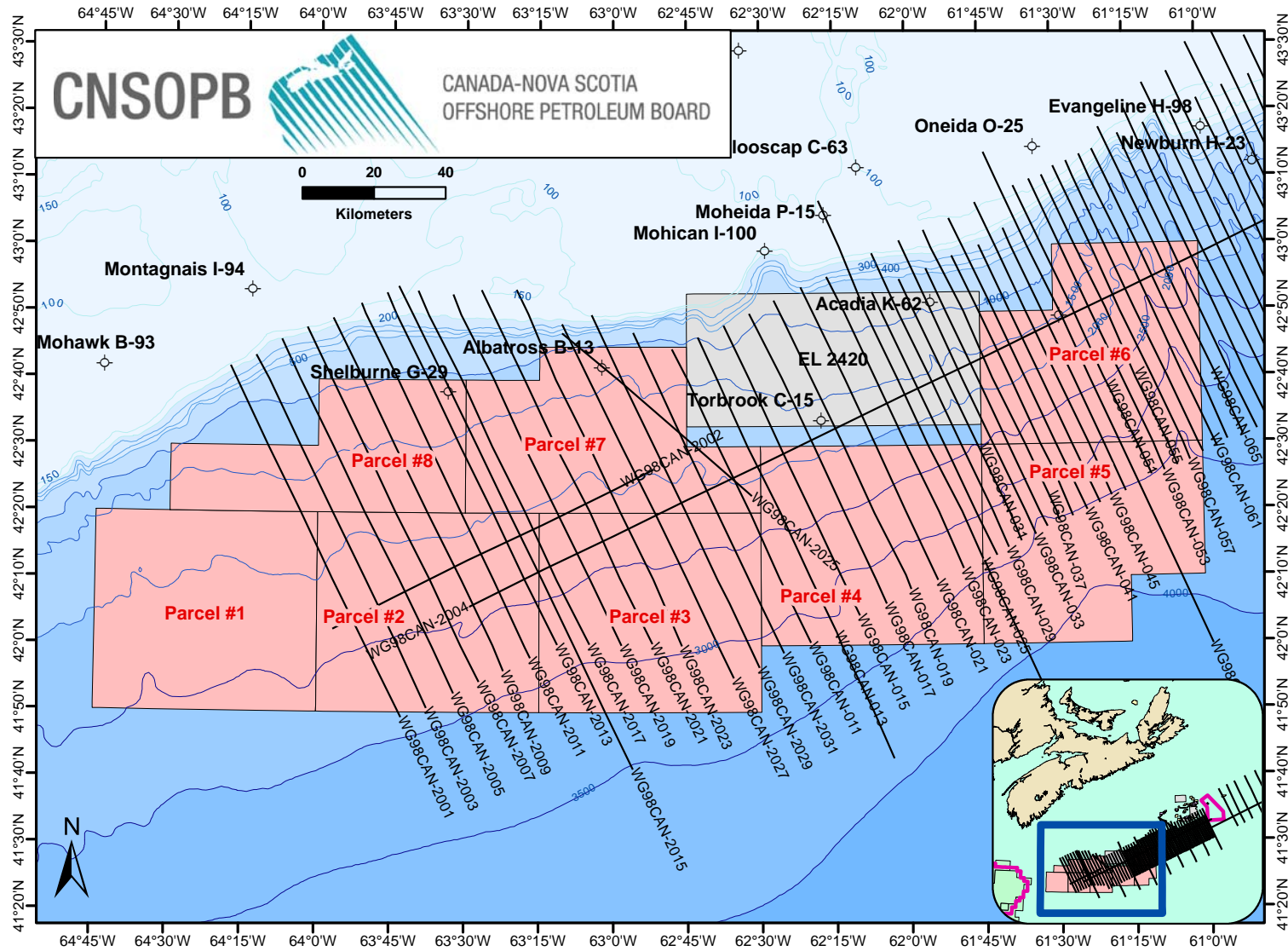


Figure 39: Location Map for NS24-W013-002P,003P

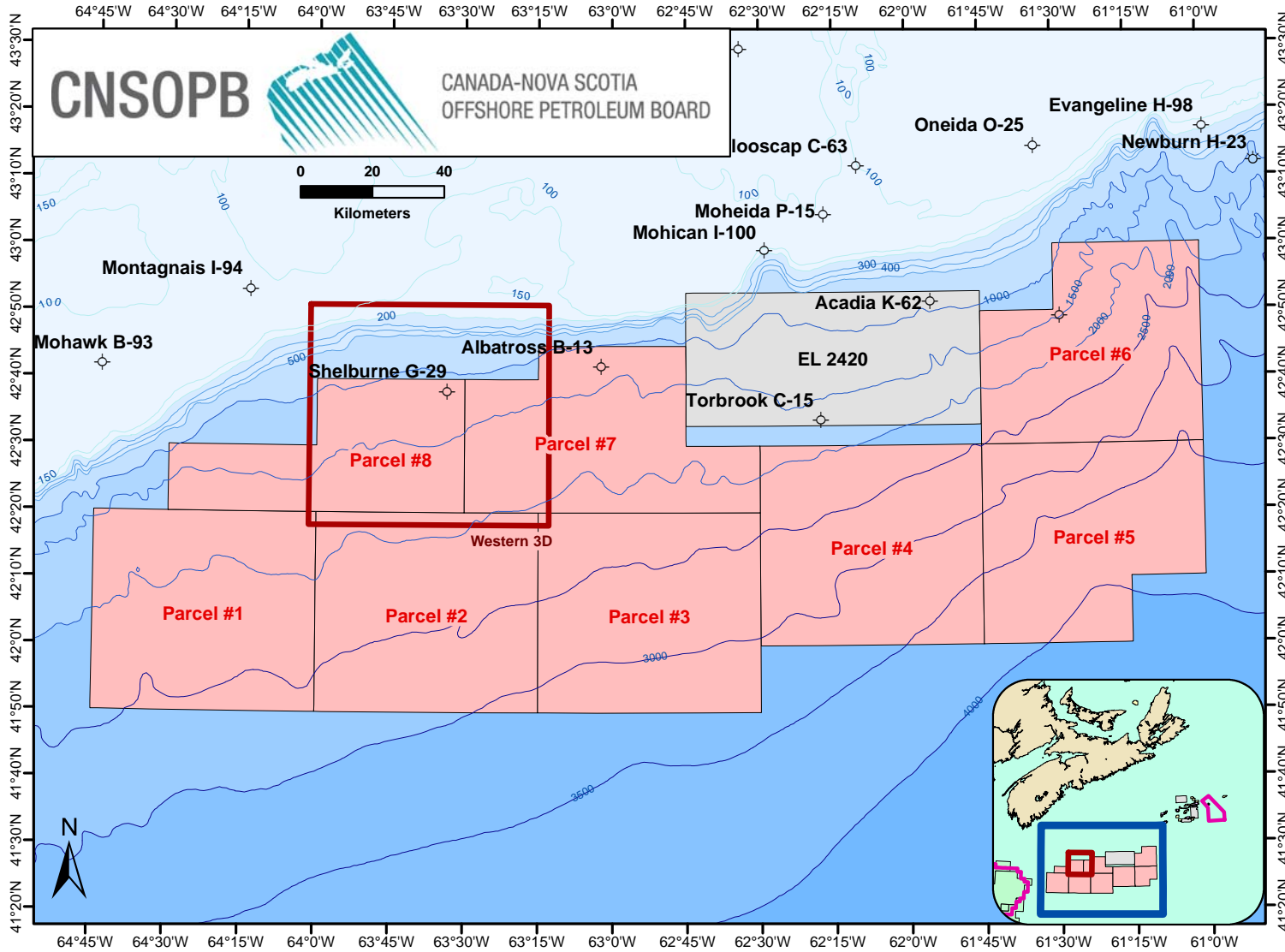


Figure 40: Location Map for BGR 1979

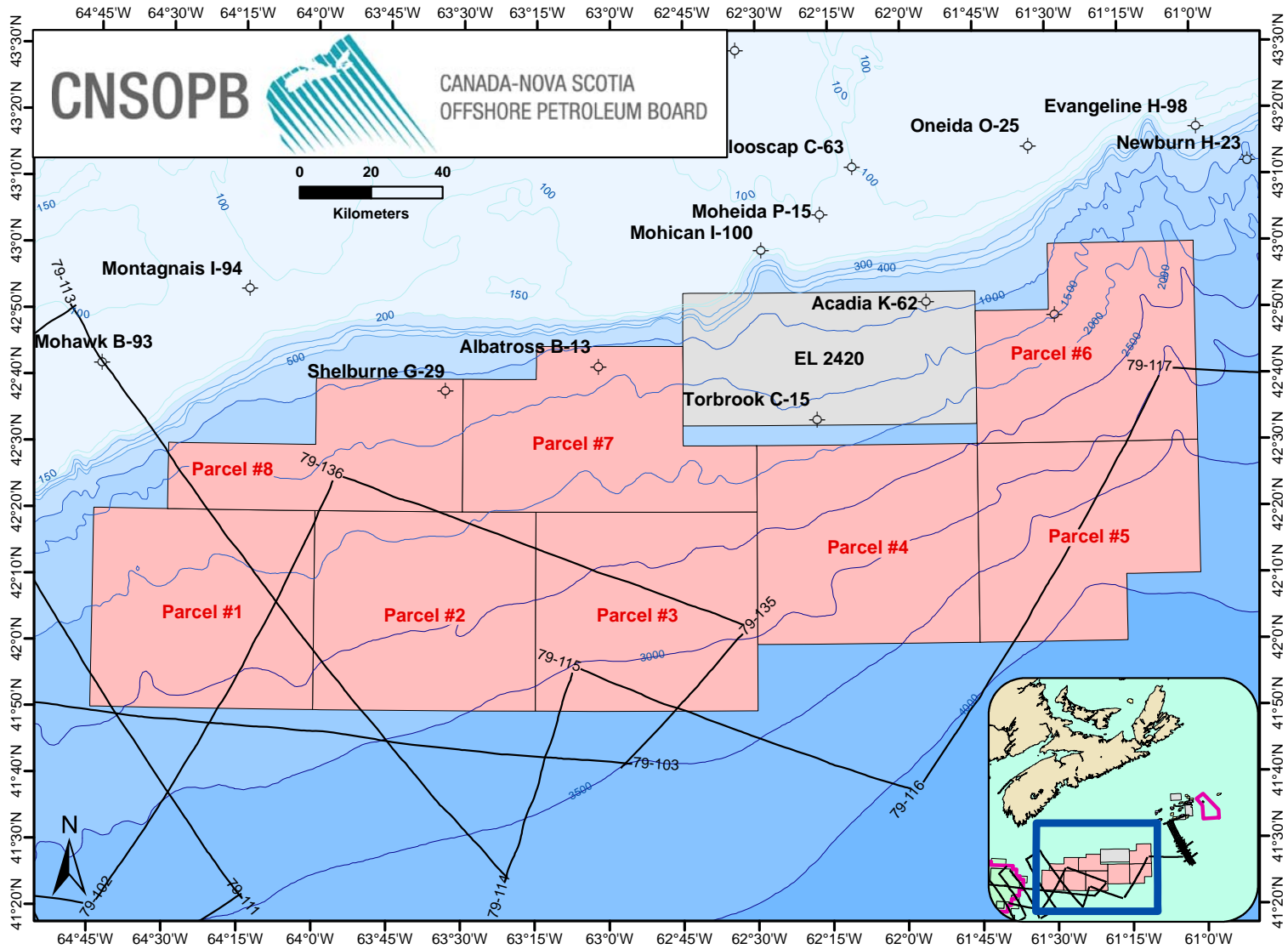
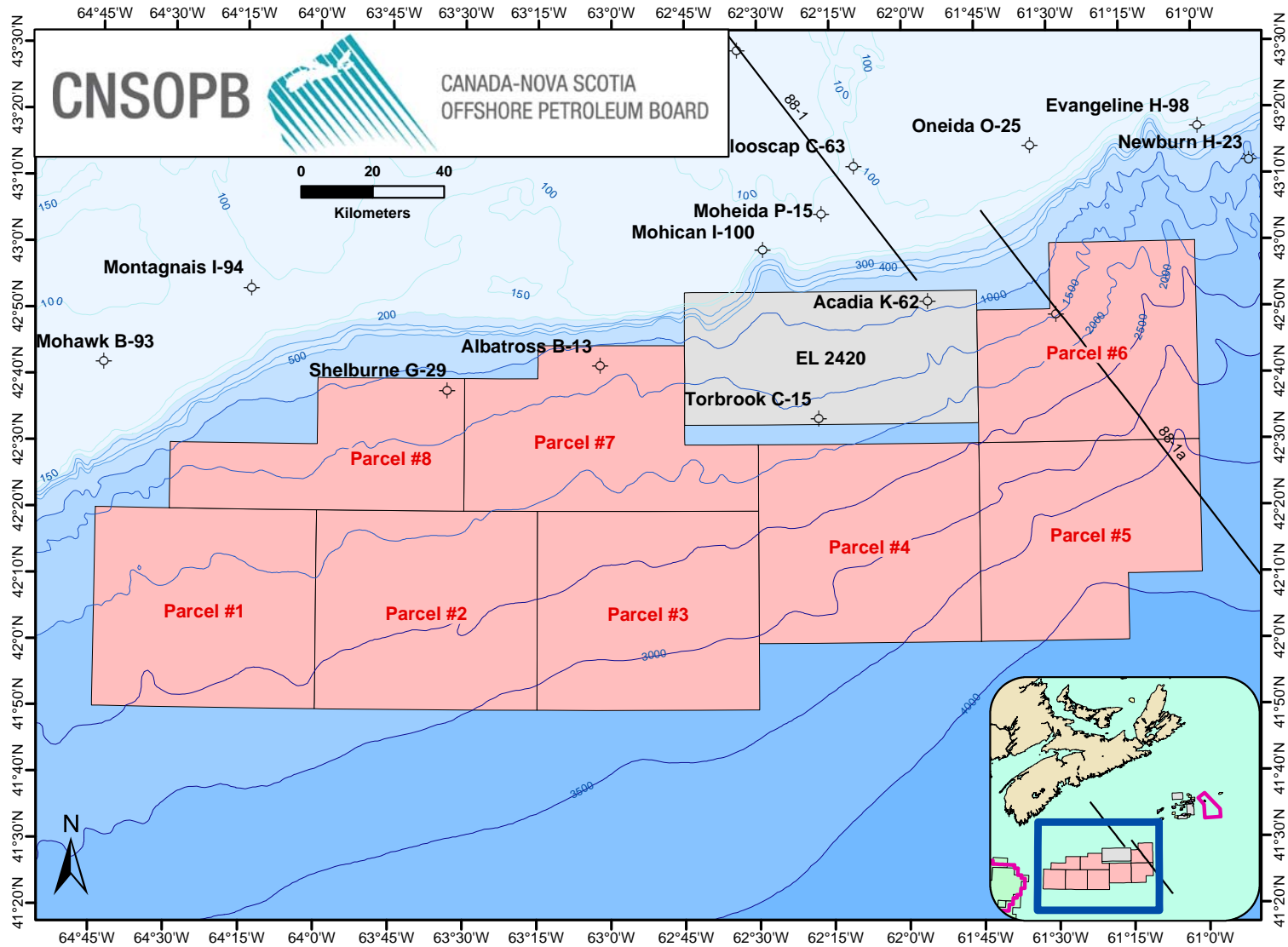


Figure 41: Location Map for LITHOPROBE 1988



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