CANADA-NOVA SCOTIA
OFFSHORE PETROLEUM BOARD

Geological & Geophysical Information Available On

CALL FOR BIDS NS16-1

APRIL 2016

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Table of Contents

Contents

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 NS15-1 area in the Nova Scotia offshore.

Additional information may be obtained from the CNSOPB's "Information on Well Data, Geological Data, and Geophysical Data", April 2015.

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 and, 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
  - 30 - combined geological program etc.

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

A004	Amoco	J001	ESSO Resources
A012	Austin Exploration	J008	ICG Resources
A014	Aqua Terra	J013	Jebco Surveys
A024	Amoco Production Co.	L023	LASMO Nova Scotia Limited
B003	B. P. O. P	K006	Kerr, J. William & Associates
B004	Banner Petroleum Limited	M003	Mobil Oil Canada
B011	Bow Valley	M006	Murphy Oil
C002	Canadian Export Oil & Gas	M013	McDermott, J. R
C004	Chevron Canada	M055	Marathon Canada Limited
C012	Canadian Reserve Oil & Gas	N005	Norcen Energy Resources
C015	Caravel/Catalina Exploration	N011	Nova Scotia Resources Limited
C020	Canadian Superior	O011	Onaping Resources Limited
C033	Canadian Ashland Exploration	P003	PanCanadian Petroleum Ltd.
C034	Central Del-Rio Oils	P011	Pacific Petroleums
C039	Cavalier Energy Inc.	P028	Petro-Canada
C055	Canterra	R005	Robertson Research - N. America
C146	Canadian Superior Energy Inc.	S001	Seibens Oil & Gas
D001	Digicon Exploration	S003	Shenandoah Oil
D003	Dome Petroleum	S006	Shell Canada Resources
D004	Delta Exploration	S008	Sun Oil
D009	Dome Canada	S009	Scurry-Rainbow Oil
D015	Dalhousie University	S014	SOQUIP

E006	Exxon	S016	Sultan Exploration
E040	ExxonMobil Canada Properties	S024	Seiscan Delta
E043	EnCana Corporation	S047	Simin. Expl. Consultants Ltd.
G001	Gulf Canada Resources	S092	St. Mary's University
G005	Geophysical Services Inc.	T007	Texaco Canada
G011	Geophoto Services	T013	Transalta Oil & Gas
G014	Great Plains Development	T021	Texaco Canada Resources
G020	Gebco (US) Inc.	T036	Teknica Resource Development Ltd.
G026	Geco Geophysical Canada Ltd.	T063	TGS-NOPEC Geophysical Company
G041	Government of Canada	U003	Union Oil
G065	Geco-Prakla	V001	Voyager Petroleums
G075	GX Technology	V003	Veritas Seismic
H005	Home Oil	W006	Western Decalta
H006	Husky Oil Operations Ltd.	W013	Western Geophysical
H007	Hudson's Bay Oil & Gas	W030	WesternGeco 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. PARCELS 1-6 *Call for Bids NS16-1*

PARCEL 1

(Search Co-Ordinates)

N. Latitude	44.02	E. Longitude	-59.45
S. Latitude	43.67	W. Longitude	-59.75

Program Number	Year	Location Map
8620-H006-002E	1982	PAGE 78 Figure 34
8620-H006-007E	1983	PAGE 72 Figure 28
8620-H006-008E	1984	PAGE 62 Figure 18
8620-H006-009E	1985	PAGE 58 Figure 14
8620-J008-001E, 002E	1984	
8620-M003-022E	1974	
8620-S006-009E	1972	
8620-S014-006E	1983	PAGE 64 Figure 20
8624-B011-004E	1983	PAGE 74 Figure 30
8624-M003-010E	1972	
8624-M003-033E	1979	
8624-M003-035E	1980	
8624-M003-044E, 045E	1982	
8624-M003-047E	1983	PAGE 69 Figure 25
8624-M003-049E	1984	PAGE 61 Figure 17
8624-O011-001E	1981	PAGE 81 Figure 37
8624-S006-005E, 006E	1970	
8624-S006-008E	1971	
8624-S006-023E	1980	PAGE 82 Figure 38
8624-S006-027E	1981	PAGE 80 Figure 36
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-035E	1983	PAGE 67 Figure 23
8624-S006-037E	1983	PAGE 65 Figure 21
8624-S006-043E	1984	PAGE 60 Figure 16
8624-S006-048E	1985	
8624-W013-001P	1983	PAGE 63 Figure 19
8624-W013-002P	1984	PAGE 59 Figure 15
NS24-E040-001E	2001	PAGE 48 Figure 04
NS24-G005-001P	1998	PAGE 52 Figure 8
NS24-G065-001P	1998-99	PAGE 50 Figure 06
NS24-M003-003E	1996	PAGE 55 Figure 11
NS24-M003-006E	1997	PAGE 54 Figure 10
NS24-M003-007E	1998	
NS24-M003-010E	1999	PAGE 51 Figure 07
NS24-T063-002P	2002	PAGE 47 Figure 03
NS24-V003-002P	1999-01	PAGE 49 Figure 05

NS24-V003-003P	1999-01	PAGE 49 Figure 05
NS24-V003-004P	1999-01	PAGE 49 Figure 05
NS24-W013-001P	1998	PAGE 53 Figure 09

PARCEL 2

(Search Co-Ordinates)

N. Latitude	44.02	E. Longitude	-59.13
S. Latitude	43.67	W. Longitude	-59.45

Program Number	Year	Location Map
8620-H006-002E	1982	PAGE 78 Figure 34
8620-H006-007E	1983	PAGE 72 Figure 28
8620-H006-008E	1984	PAGE 62 Figure 18
8620-H006-009E	1985	PAGE 58 Figure 14
8620-J008-001E, 002E	1984	
8620-M003-015E	1973	
8620-S014-006E	1983	PAGE 64 Figure 20
8624-B011-003E	1982	
8624-B011-004E	1983	PAGE 74 Figure 30
8624-C020-001E	1972	
8624-H006-004E	1983	PAGE 73 Figure 29
8624-H006-008E	1984	PAGE 71 Figure 27
8624-M003-004E	1971	
8624-M003-010E	1972	
8624-M003-011E	1972	
8624-M003-033E	1979	
8624-M003-044E, 045E	1982	
8624-M003-049E	1984	PAGE 61 Figure 17
8624-O011-001E	1981	PAGE 81 Figure 37
8624-S006-023E	1980	PAGE 82 Figure 38
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-037E	1983	PAGE 65 Figure 21
8624-S006-043E	1984	PAGE 60 Figure 16
8624-W013-001P	1983	PAGE 63 Figure 19
8624-W013-002P	1984	PAGE 59 Figure 15
8624-W013-005P	1985	PAGE 56 Figure 12
NS24-G005-001P	1998	PAGE 52 Figure 08
NS24-G065-001P	1999	PAGE 50 Figure 06
NS24-M003-003E	1996	PAGE 55 Figure 11
NS24-T063-002P	2002	PAGE 47 Figure 03
NS24-W013-001P	1998	PAGE 53 Figure 09
BGR 1979	1979	PAGE 83 Figure 39

PARCEL 3

(Search Co-Ordinates)

N. Latitude	43.66	E. Longitude	-59.75
S. Latitude	43.58	W. Longitude	-60.08

Program Number	Year	Location Map
8620-H006-002E	1982	PAGE 78 Figure 34
8620-H006-007E	1983	PAGE 72 Figure 28
8620-H006-008E	1984	PAGE 62 Figure 18
8620-H006-009E	1985	PAGE 58 Figure 14
8620-J008-001E, 002E	1984	
8620-S014-006E	1983	PAGE 64 Figure 20
8624-H006-004E	1983	PAGE 73 Figure 29
8624-H006-007E	1984	
8624-H006-010E	1985	PAGE 57 Figure 13
8624-N005-002E	1983	
8624-S006-008E	1971	
8624-S006-023E	1980	PAGE 82 Figure 38
8624-S006-027E	1981	PAGE 80 Figure 36
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-037E	1983	PAGE 65 Figure 21
8624-S006-041E	1985	
8624-S006-048E	1985	
8624-S006-050E	1987	
NS24-E040-001E	2001	PAGE 48 Figure 04
NS24-G065-001P	1999	PAGE 50 Figure 06
NS24-M003-006E	1997	PAGE 54 Figure 10
NS24-T063-002P	2002	PAGE 47 Figure 03
NS24-V003-002P	1999	PAGE 49 Figure 05
NS24-V003-003P	2000	PAGE 49 Figure 05
NS24-V003-004P	2001	PAGE 49 Figure 05
NS24-W013-001P	1998	PAGE 53 Figure 09
BGR 1979	1979	PAGE 83 Figure 39

PARCEL 4

(Search Co-Ordinates)

N. Latitude	43.67	E. Longitude	-59.50
S. Latitude	42.78	W. Longitude	-60.00

Program Number	Year	Location Map
8620-H006-001E, 006E	1982	
8620-H006-002E	1982	PAGE 78 Figure 34
8620-H006-007E	1983	PAGE 72 Figure 28
8620-H006-008E	1984	PAGE 62 Figure 18

8620-H006-009E	1985	PAGE 58 Figure 14
8620-J008-001E, 002E	1984	
8620-S006-009E	1972	
8620-S014-006E	1983	PAGE 64 Figure 20
8624-A004-018E	1974	
8624-H006-004E	1983	PAGE 73 Figure 29
8624-H006-010E	1985	PAGE 57 Figure 13
8624-M003-014E, 018E	1973	
8624-N005-002E	1983	
8624-O011-001E	1981	PAGE 81 Figure 37
8624-S006-008E	1971	
8624-S006-009E	1972	
8624-S006-023E	1980	PAGE 82 Figure 38
8624-S006-027E	1981	PAGE 80 Figure 36
8624-S006-032E	1982	
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-035E	1983	PAGE 67 Figure 23
8624-S006-036E	1983	PAGE 66 Figure 22
8624-S006-037E	1983	PAGE 65 Figure 21
8624-S006-043E	1984	PAGE 60 Figure 16
8624-S006-048E	1985	
8624-S006-050E	1987	
8624-W013-001P	1983	PAGE 63 Figure 19
NS24-E040-001E	2001	PAGE 48 Figure 04
NS24-G075-003P	2003	PAGE 46 Figure 02
NS24-M003-006E	1997	PAGE 54 Figure 10
NS24-T063-002P	2002	PAGE 47 Figure 03
NS24-T063-02P	2002	
NS24-V003-002P	1999	PAGE 49 Figure 05
NS24-V003-003P	2000	PAGE 49 Figure 05
NS24-V003-004P	2001	PAGE 49 Figure 05
NS24-W013-001P	1998	PAGE 53 Figure 09
RC2111	1978	
BGR 1979	1979	PAGE 83 Figure 39

PARCEL 5

(Search Co-Ordinates)

N. Latitude	43. 67	E. Longitude	-59.15
S. Latitude	42. 83	W. Longitude	-59.55

Program Number	Year	Location Map
8620-H006-002E	1982	PAGE 78 Figure 34
8620-H006-007E	1983	PAGE 72 Figure 28

8620-H006-009E	1985	PAGE 58 Figure 14
8620-J008-001E, 002E	1984	
8620-S006-009E	1972	
8620-S014-006E	1983	PAGE 64 Figure 20
8624-H006-004E	1983	PAGE 73 Figure 29
8624-M003-014E, 018E	1973	
8624-O011-001E	1981	PAGE 81 Figure 37
8624-S006-023E	1980	PAGE 82 Figure 38
8624-S006-027E	1981	PAGE 80 Figure 36
8624-S006-028E, 031E	1981	
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-035E	1983	PAGE 67 Figure 23
8624-S006-037E	1983	PAGE 65 Figure 21
8624-S006-042E	1984	
8624-W013-001P	1983	PAGE 63 Figure 19
8624-W013-005P	1985	PAGE 56 Figure 12
NS24-G005-001P	1998	PAGE 52 Figure 08
NS24-G065-001P	1999	PAGE 50 Figure 06
NS24-G075-003P	2003	PAGE 46 Figure 02
NS24-M055-001E	2003	PAGE 45 Figure 01
NS24-T063-002P	2002	PAGE 47 Figure 03
NS24-V003-002P	1999	PAGE 49 Figure 05
NS24-V003-003P	2000	PAGE 49 Figure 05
NS24-V003-004P	2001	PAGE 49 Figure 05
NS24-W013-001P	1998	PAGE 53 Figure 09
BGR 1979	1979	PAGE 83 Figure 39
RC2111	1978	

PARCEL 6

(Search Co-Ordinates)

N. Latitude	43.68	E. Longitude	-58.58
S. Latitude	42.83	W. Longitude	-59.20

Program Number	Year	Location Map
8620-H006-007E	1983	PAGE 72 Figure 28
8620-J008-001E, 002E	1984	
8620-S006-009E	1972	
8620-S014-006E	1983	PAGE 64 Figure 20
8620-S024-001P	1972	
8624-H006-008E	1984	PAGE 71 Figure 27
8624-O011-001E	1981	PAGE 81 Figure 37
8624-S006-005E, 006E	1970	
8624-S006-027E	1981	PAGE 80 Figure 36

8624-S006-032E	1982	
8624-S006-033E	1982	PAGE 75 Figure 31
8624-S006-035E	1983	PAGE 67 Figure 23
8624-W013-001P	1983	PAGE 63 Figure 19
8624-W013-005P	1985	PAGE 56 Figure 12
NS24-G005-001P	1998	PAGE 52 Figure 08
NS24-G065-001P	1999	PAGE 50 Figure 06
NS24-G075-003P	2003	PAGE 46 Figure 02
NS24-M055-001E	2003	PAGE 45 Figure 01
NS24-W013-001P	1998	PAGE 53 Figure 09
RC2111	1978	

2. WELL SUMMARIES *Call for Bids NS16-1*

(In or near Parcels 1 -6)

Annapolis B-24 D374

Well Summary

GENERAL INFORMATION

D #	374
Company	Marathon Canada
Location	43°23'07.91" N 59°48'38.15" W
UWI	300B244330059450
Area	Scotian Slope
Spud Date	December 26, 2001
Well Term. Date	April 24, 2002
Drilling Rig	West Navion
Total Depth MD (m)	3496
Total Depth TVD (m)	3496
Water Depth (m)	1737
Rotary Table (m)	35.5
Well Status	P&A
Well Type	Exploratory
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)
914.4 mm x 1851.5 m
508/346 mm x 2596.5 m

GEOLOGIC TOPS

Formation:	**Depth (m)**
Banquereau Fm	3495.7 (bottom)

ADDITIONAL REPORTS AND LOGS:

End of Well Report
Cement Mapping Tool, Final Print Run 1
Composite Log
Drilling Data Log
Explosive Services Colliding Tool Correlation Passes, Final Print Run 1
Explosive Services Enerjet Guns Correlation Passes, Final Print Run 1
Free-Point Indicator Tool, Final Print Run 1
Hydrocarbon Well Log
Mud Gas Analysis
MWD EWR DGR BAT MD Log Run 1-3
MWD EWR DGR MD Log Run 1-3
MWD PWD/DDS Time Log Run 3
Pressure Log
PWD Time Log
Striplog 1:600
Striplog Scale 1:240

Temperature Log (CPLT), Final Print Run 1
Temperature Log (CPLT), Final Print Run 2
Temperature Log (PSPT), Final Print Run 1
Muddlogger's Report
Biostratigraphic Report
Biostratigraphy Report for the Interval 2610-3440m
Geochemical Evaluation of Sediments from Marathon et al Annapolis B-24 and Annapolis G-24 Wells
Final Environmental Data Summary Annapolis Drilling Program
Current Data Report
Weather Forecast Verification Report
Geology Report

SAMPLES

Sample Type:	**Interval (m)**	**# of Samples**
Washed Cuttings	2608 – 3440	83
Unwashed Cuttings	2608 – 3440	83

Annapolis G-24 D378

Well Summary

GENERAL INFORMATION

D #	378
Company	Marathon Canada
Location	43°23'22.94" N
	59°48'29.19" W
UWI	300G244330059450
Area	Scotian Slope
Spud Date	April 17, 2002
Well Term. Date	September 16, 2002
Drilling Rig	West Navion
Water Depth (m)	1678
Rotary Table (m)	36
Total Depth MD (m)	6,182
Total Depth TVD (m)	6,156
Well Type	Exploratory
Well Status	P&A
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	**Casing Size x Depth (imperial)**
914 mm x 1789 m	36" x 5,869'
508 mm x 2352 m	20" x 7,716'
346 mm x 3251 m	13 ⅝" x 10,666'
302 mm x 4426 m	11 15/16" x 14,520'
244 mm x 4360 m	9 ⅝" x 14,304'
194 mm x 4965 m	7 ⅝" x 16,289'

GEOLOGIC TOPS

Formation:	Depth MD (m)
Banquereau Fm	2555 (bottom)
(Manhasset Beds)	2555
(Nashwauk Beds)	2682
Wyandot Fm	3457
Logan Canyon Fm	3490
Missisauga Fm	5041

Note: Geologic tops as interpreted by Robertson Research International Inc.

ADDITIONAL REPORTS AND LOGS:

Well History Report
PWD/DDS, Runs 1-14 Time Log Run 200
PWD, Runs 1-14, Time Log Run 1000
PWD, Runs 1-14 Time Log Run 1100
PWD, Runs 1-14 Time Log Run 500
PWD/DDS, Runs 1-14 Time Log Run 200
PWD, Runs 1-14 Time Log Run 800
PWD, Runs 1-14 Time Log Run 900
Bi-Modal Acoustic Tool/Dual Gamma Ray MD, Runs 1-14
Bi-Modal Acoustic Tool/Dual Gamma Ray TVD, Runs 1-14
EWR/DGRMD, Runs 1-14
EWR/DGRTVD, Runs 1-14
EWR/DGR/BATMD, Runs 1-14
EWR/DGR/BATTVD, Runs 1-14
AIT-DSI-EMS-LDL-CNL-HNGS Array Induction Log Suite 1, Run 1
AIT-DSI-EMS-LDL-CNL-HNGS Array Induction & Sonic Log Suite 1, Run 1
AIT-DSI-EMS-LDL-CNL-HNGS Litho Density & Compensated Neutron Log Suite 1, Run 1
AIT-DSI-EMS-LDL-CNL-HNGS Natural Gamma Spectrometry Log Suite 1, Run 1
AIT-DSI-EMS-LDL-CNL-HNGS Dipole Shear Sonic Imager Log Suite 1, Run 1
Chronological Sample Taker Core Report Suite 1, Run 2
Compensated Neutron Gamma Ray Suite 2, Run 2
AIT-DSI-EMS-LDT-CNL-NGT 6 Arm Caliper Log Suite 3, Run 1
AIT-DSI-EMS-LDT-CNL-NGT Resistivity & Sonic Log Suite 3, Run 1
AIT-DSI-EMS-LDT-CNL-NGT Density & Neutron Log Suite 3, Run 1
AIT-DSI-EMS-LDT-CNL-NGT Natural Gamma Ray Log Suite 3, Run 1
Modular Formation Dynamic Tester (PS-PS-HY-LFA-PO-SC-SC-MS-PC)Suite 3, Run 1
Modular Formation Dynamic Tester (PS-PS-HY-LFA-PO-SC-SC-SC-MS-MS-PC) Suite 4, Run 1
AIT-DSI-EMS-LDT-CNL-HNGS Density & Neutron Suite 5, Run 1
AIT-DSI-EMS-LDT-CNL-HNGS 6 Arm Caliper Suite 5, Run 1
AIT-DSI-EMS-LDT-CNL-HNGS Resistivity & Sonic Suite 5, Run 1
AIT-DSI-EMS-LDT-CNL-HNGS Hostile Gamma Ray Suite 5, Run 1
Current Data Report
Weather Forecast Verification Report
End of Well Report (Mudlogging Report)
Drilling Data Log
Pressure Log
Mudlog Scale 1:240
Mudlog Scale 1:600
Mud Gas Analysis
Geological Report
Strip Log Scale 1:240

Strip Log Scale 1:600
Composite Log
BAT/DGR 1:600/1:240 MD Log
BAT/DGR 1:600/1:240 TVD Log
EWR/BGR/BAT 1:600 MD Log
EWR/BGR/BAT 1:600 TVD Log
Reservoir Fluid Sampling and Analysis
PWD/DDS, Time Log Run 400
Geochemical Evaluation of Sediments from Marathon et al Annapolis B-24 and Annapolis G-24
Formation Evaluation
VSP and Well Seismic Report using P Wave Source
Well Seismic Report a Velocity Survey using P-wave Source
Check Shot Survey Velocity Cross Plot
Synthetic Seismogram Geogram Display
VSP Zero Offset VSP Stack Raw Data Interval: 6175ft – 1722ft
VSP Zero Offset VSP Wavefield Separation
VSP Zero Offset VSP Z-Axis VSP Processing Steps Upgoing PP Waves VSP Runs 1&2
VSP Q Analysis
VSP Zero Offset VSP Signal Based Polarization
VSP Zero Offset VSP 3-Axes VSP Processing Steps Upgoing PS Waves
VSP Zero Offset VSP Multiples Analysis Inside-Outside Corridors
VSP Composite Display
Modular Formation Dynamics Tester Final Report/MDT Reservoir Analysis
Petrographic and Clay Mineral Analysis of Drill Cuttings
Biostratigraphy of the Interval 2555-6182mTD
CSAT-CSAT-CSAT-GR Suite 5, Run 2 Zero Offset VSP Log
CSAT-CSAT-CSAT-GR Suite 2, Run 1 Zero Offset VSP Log

SAMPLES

Sample Type:	**Interval (m)**	**# of Samples**
Washed Cuttings	2555 – 6182.5	746
Unwashed Cuttings	2555 – 6182.5	746
Sidewall Core	3267 – 4433	35

Slides:	**Interval (m)**	**# of Samples**	**Sample Source:**
Palynology	3267 - 4438	20	Sidewall Core
Palynology	5075 - 6182	51	Cuttings
Palynology	2555 - 5058	100	Cuttings

Balvenie B-79 D388

Well Summary

GENERAL INFORMATION

D #	388
Company	Imperial Oil
Location	43°08’01.29” N 60°10’56.84” W
UWI	300B794310060000
Area	Scotian Slope
Spud Date	July 6, 2003

Well Term. Date	September 6, 2003
Drilling Rig	Erik Raude
Total Depth (m)	4750
Water Depth (m)	1803
Rotary Table (m)	25
Well Status	P&A
Well Type	Exploratory
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	**Casing Size x Depth (imperial)**
914.4 mm x 1910.7 m	36" x 6,269
508.0 mm x 2744.5 m	20" x 9,004'
346.1 mm x 3673.1 m	13 ⅝" x 12,051'
198.5 mm x 4542.8 m	11 ¾" x 14,904'
914.4 mm x 1910.7 m	36" x 6,269

GEOLOGIC TOPS

Formation:	**Depth (m)**
(Lower Pliocene)	Not picked
(Miocene)	2915
(T45 seismic marker)	3084
(Middle Eocene)	3218
(T20 seismic marker)	3419
Wyandot Fm	3515
(Maastrichtian)	3586
(Lower Maastrictian)	3616
Dawson Canyon Fm	
Petrel Mb - Top	3753
Petrel Mb - Base	3800
(C51 Top seismic marker)	4158
(C35 seismic marker)	4198
(C32 seismic marker)	4284
(C30 seismic marker)	4680

Note: Geologic tops as interpreted by Imperial Oil Resources Ventures Ltd.

ADDITIONAL REPORTS AND LOGS:

Well History Report
Vision Resistivity 1:600 and 1:240 MD 432mm Hole Section Recorded Mode Log Final Print Runs 2-2
Vision Resistivity 1:600 and 1:240 MD 660mm Hole Section, Recorded Mode Log Final Print Runs 1-1
Vision Resistivity Dual Frequency 1:600 and 1:240 MD 432mm Hole Section, Recorded Mode Log Final Print Runs 2 – 2 Recorded Mode Log Run 2-2
Vision Resistivity Dual Frequency 1:600 and 1:240 MD 660mm Hole Section Recorded Mode Log Final Print Runs 1 – 1
Vision Isonic 1:600 and 1:240 MD 432mm Hole Section, Recorded Mode Log Final Print Runs 2-2
Vision Isonic STC Projection Log, Receiver and Transmitter 1:240 MD 432mm Hole Section Recorded Mode Log Final Print Runs 2-2
Array Induction, Run 1 Final Print
Compensated Neutron Lithology Density Final Print Run 1
Vision Isonic 1:600 and 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Runs 3-3
Vision Resistivity 1:600 and 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Runs 3-3

Vision Isonic STC Projection Log, Receiver and Transmitter 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Runs 3-3
Vision Isonic & ARC 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Runs 3-3
Vision Resistivity QC 1:600 & 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Run 3-3
Vision Resistivity Dual Frequency 1:600 & 1:240 MD 374mm Hole Section Recorded Mode Log Final Print Runs 3-3
Drilling Mechanics Time Log 270mm Hole Section, Recorded Mode Log Runs 4-8
VISION Services Log 1:600 & 1:240 MD 270mm Hole Section Recorded Mode Log Final Print Runs 4-8
VISION ISONIC STC Projection Log Receiver and Transmitter 1:240 MD 270mm Hole Section Recorded Mode Log Runs 4-8
VISION ISONIC 1:600 and 1:240 MD 270mm Hole Section Recorded Mode Log Final Print Runs 4-8
VISION Resistivity 1:600 and 1:240 MD 270mm Hole Section Recorded Mode Log Final Print Runs 4-8
VISION Resistivity-Dual Frequency 1:600 and 1:240 MD 270mm Hole Section, Recorded Mode Log Runs 4-8
VISION Resistivity QC Log 1:240 MD 270mm Hole Section Recorded Mode Log Final Print Runs 4-8
Composite Well Log Display
Final Mud Report
Mudlog Scale 1:600
Pressure Log 1:2000
Drilling Log Scale 1:600
Physical Oceanographic Data Reports

SAMPLES

Sample Type:	Interval (m)	# of Samples
Washed Cuttings	2765 – 4750	396
Unwashed Cuttings	2765 – 4750	397

Chebucto K-90 D242

Well Summary

GENERAL INFORMATION

D #	242
Company	Husky Bow Valley
Location	43°39’44.74” N 59°42’52.05” W
UWI	300K904340059300
Area	Scotian Shelf
Spud Date	January 6, 1984
Well Term. Date	August 2, 1984
Drilling Rig	Bow Drill II
Total Depth (m)	5,235
Water Depth (m)	109
Rotary Table (m)	22.8
Well Status	P&A
Well Type	Exploratory
Classification	Gas Well
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)

762 mm x 396.2 m	30" x 1,299.8'
508 mm x 922.3 m	20" x 3,025.9'
340 mm x 3408.0 m	13 ⅜" x 11,181'
244 mm x 3713.4 m	9.6" x 12,183'
178 mm x 4807.3 m	7" x 15,771'

WELL TEST SUMMARY

Type /Test #	Interval (m)	Recovery	Flow Rate m3/d	Remarks
DST #1	4609 – 4621	water cushion		0.5m³ recovered
DST #2	4287 – 4299	water cushion		0.3m³ recovered
DST #3	4262 – 4276	gas	4019	
		water	274.7	
DST #4	422 7 – 4238	gas	416,010	
		water	226.6	
		condensate	14	
DST #5	4166 – 4177	water cushion	0.3	
DST #6	3866 – 3877	water	40	
DST #7	3798 – 3815	gas	585,810	
		water	80	
		condensate	25.3	
DST #8	3352 – 3357	misrun		
DST #8 A	3352 – 3357	gas	217,910	
		water	6.0	
		condensate	8.9	

GEOLOGIC TOPS

Formation:	Depth (m)
Banquereau Fm	In casing
Dawson Canyon Fm	1911.4
(?Unconformity)	1990.0
Logan Canyon Fm	
Marmora Mb	2025.4
Sable Mb	2482.5
Cree Mb	2642.5
Naskapi Mb	3920.0
Top Op	~4180.0
Missisauga Fm	4225.0

ADDITIONAL REPORTS AND LOGS:

Depth Derived Borehole Compensated Sonic Log, Run 1-5
Dual Laterolog Micro SFL, Run 1
Four-Arm High Resolution Continuous Dipmeter (Computed), Run 1-3
Directional Log (Computed), Run 1-3
Repeat Formation Tester, Run 1 & 2
Cement Bond-Variable Density Log, Run 1
Dual Induction-SFL, Run 1-5
Plan & Field Notes
Mud-Gas Log
Composite Geological Well Data Log
DST Fluid Analysis
Vertical Seismic Profile
Well Seismic Report

GMA Stratigraphic Modeling System (Mylar Sheet)
Four-Arm High Resolution Continuous Dipmeter, Run 1-3
Depth Derived Borehole Compensated Sonic Log (Reduced Mylar)
Dual Laterolog Micro SFL (Reduced Mylar)
Dual Induction-SFL (Reduced Mylar)
Completion Record, Run 1
Cement Evaluation Log, Run 1
Natural Gamma Ray Spectroscopy Log, Run 1 & 2
Cyberlook Field Log, Run 2
Cyberlook Field Log, Run 4
Cyberlook Field Log, Run 5
Cyberdip Field Log, Run 4
Lithology Quick-look Field Log, Run 2,
Lithology Quick-look Field Log, Run 4
Core Sample Taker Results, Run 1 & 2
Cement Volume Log, Run 1-3
Simultaneous Compensated Neutron-Litho Density, Run 1-3
Directional Survey, Run 1-3
Horizontal Plot
Plan and Field Notes
High Resolution Dipmeter Cluster Listing, Run 1
Core Analysis
Core Photo's (Slabbed), Core 1
Well Test Analysis
Well Seismic Report
Biostratigraphy Report
Summary of Age Determinations & Lithostratigraphy
Simultaneous Compensated Neutron-Litho Density (Reduced Mylar)
Bow Drill II
Four-Arm High Resolution Continuous Dipmeter Run 1-3

SAMPLES

Sample Type:	**Interval (m)**	**# of Samples**
Washed Cuttings	420 – 5234	906
Unwashed Cuttings	420 – 5234	903
Sidewall Core	314.8	1
Canned Cuttings	420 – 5234	903

Slides:	**Interval (m)**	**# of Samples**	**Sample Source:**
Micropaleo Slides	415 - 5235 M	162	Cuttings
Micropaleo Slides	420 - 5230 M	251	Company Cuttings
Micropaleo Slides	1750 - 5230 M	118	Cuttings
Palynology Slides	440 - 5234 M	213	Cuttings
Palynology Slides	969 - 5217 M	47	Company Sidewall Core
Palynology Slides	420 - 5235 M	464	Company Cuttings
Palynology Slides	4278.6 - 4287.0 M	9	Company Core

Core:	**Interval (m)**	**Recovery (m)**
Core #1	4278.4 – 4286.5	8.15

Fluids:

Test #	**Interval (m)**	**Recovery**	**Recovered from**
DST #4, Zone 4	4227 - 4238 M	Condensate	Stocktank
DST #7, Zone 9	1645 FT.	Water	Stocktank

DST #7, Zone 9	3798 - 3815	Condensate	Separator
DST #8A, Zone 11	3352 - 3357	Condensate	High Stage Separator

Crimson F-81 D394

Well Summary

GENERAL INFORMATION

D #	394
Company	Marathon Canada
Location	43°20'22.29" N 59°42'57.03" W
UWI	300F814330059300
Area	Scotian Slope
Spud Date	June 18, 2004
Well Term. Date	August 27, 2004
Drilling Rig	Deepwater Pathfinder
Total Depth MD (m)	6676
Water Depth (m)	2091.5
Rotary Table (m)	24.1
Well Status	P&A
Well Type	Exploration
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	**Casing Size x Depth (imperial)**
914 mm x 2189.1 m	36" x 7,183.07'
508 mm x 3284.8 m	20" x 10,776.90'
406.4 mm x 3752.0 m	16" x 12,309.71'
346.1 mm x 4689.1 m	13 ⅝" x 15,413.7'
301.6 mm x 5225.2 m	11 $^{7/8}$" x 17,143.04'
244.5 mm x 5867.4 m	9 ⅝" x 19,250'

GEOLOGIC TOPS

Formation:	**Depth (m)**
Banquereau Fm	3,298
Wyandot Fm	3,560

Note: Geologic tops as interpreted by Marathon Canada

ADDITIONAL REPORTS AND LOGS:

Well History Report
XMAC Multipole Array Acoustilog August 7, 2004
XMAC Computed Slowness
Borehole Profile Log, Run 2
Compensated Z-Densilog/Compensated Neutron/Gamma Ray & Caliper Log, Run 1
High Definition Induction/Gamma Ray/Caliper Log, Run 1
Digital Spectralog, Run 1

Composite Plot/High Definition Induction/Compensated Z-Densilog/Compensated Neutron/Gamma Ray/Caliper Log, Run 1
Cement Volume Log, Run 1
XMAC Computed Slowness
Digital Spectralog/ Gamma Ray Log
TVD Compensated Z-Densilog/Compensated Neutron/Gamma Ray/6-Arm Caliper Log, Run 2
TVD High Definition Induction Log/Gamma Ray/Caliper Log, Run 2
High Definition Induction/Gamma Ray/Caliper Log, Run2
TVD Composite Plot/High Definition Induction/Compensated Z-Densilog/Compensated Neutron/Multipole Array Acoustilog/Gamma Ray/6-Arm Caliper Log, Run 2
Composite Plot/High Definition Induction/Compensated Z-Densilog/Compensated Neutron/Multipole Array Acoustilog/Gamma Ray/6-Arm Caliper Log, Run 2
Compensated Z-Densilog/Compensated Neutron/Gamma Ray/6-Arm Caliper Log, Run 2
TVD Digital Spectralog/Gamma Ray Log, Run 2
Reservoir Characterization Instrument, Run 2 Calibration Summary
Reservoir Characterization Instrument, Run 2 Pressure Summary
DGR/ EWR/BAT, MD Log
DGR/ EWR/BAT, TVD Log
DGR/ EWR MD Log
DGR/ EWR TVD Log
Analysis Report Isotech Mud Gas Data
Geological Report
Geological Strip Log Scale 1:600
Survey Report (contains plan and field notes)
Composite Log
End of Well Report- Drilling Discussion by Hole/Geological Evaluation/Bit Record
Engineering Log TVD Log
Engineering Log MD Log
Surface Data Logging TVD Log
Surface Data Logging MD Log
Current Data Report
Weather Forecast Verification Report
Wave Data Report
Environmental Summary Report
MWD PWD/DDS, Runs 1 Time Log Run 100
MWD DDS Runs 1 MD Log Run 100
MWD PWD/DDS, Runs 1-2 Time Log Run 200
MWD DDS Runs 1-2 MD Log Run 200
MWD PWD/DDS, Runs 1-3 Time Log Run 300
MWD DDS Runs 1-3 MD Log Run 300
MWD PWD/DDS, Runs 1-4 Time Log Run 400
MWD DDS Runs 1-4 MD Log Run 400
MWD PWD/DDS, Runs 1-4RR Time Log Run 500
MWD DDS Runs 1-4RR MD Log Run 500
MWD PWD/DDS, Runs 1-5 Time Log Run 600
MWD DDS Runs 1-5 MD Log Run 600
MWD PWD/DDS, Runs 1-6 Time Log Run 700
MWD DDS Runs 1-6 MD Log Run 700
MWD PWD/DDS, Runs 1-7 Time Log Run 800
MWD DDS Runs 1-7 MD Log Run 800
MWD PWD/DDS, Runs 1-8 Time Log Run 900
MWD DDS Runs 1-8 MD Log Run 900
Pressure Overview Plot 6500ft to 21950ft TVD
Pressure Overview Plot 2000ft to 6600ft TVD
FEWD Formation Pressure Log 6500ft to 21950ft TVD
FEWD Formation Pressure Log 2000ft to 6600ft TVD

SAMPLES

Sample Type:	Interval (m)	# of Samples
Washed Cuttings	3300.0 – 6676.1	683
Unwashed Cuttings	3300.0 – 6676.1	683

Slides:	Interval (m)	# of Samples	Sample Source:
Palynology	5700.0 - 6676.1	44	Co. Cuttings
Palynology	3320 - 5690	100	Co. Cuttings

Eagle D-21 D80

Well Summary

GENERAL INFORMATION

D #	80
Company	Shell et al
Location	43°50'06.73"N 59°34'09.21"W
UWI	300D214400059300
Area	Scotian Shelf
Spud Date	April 22, 1972
Well Term. Date	July 2, 1972
Drilling Rig	Sedco H
Total Depth (m)	4660.4
Water Depth (m)	51.2
Rotary Table (m)	29.9
Well Status	P&A
Well Type	Exploratory
Info. Release Date	Released

CASING:

Size x Depth (metric)	Size x Depth (imperial)
406 mm x 265.2	16" x 870'
340 mm x 996.7 m	13 3/8" x 3,270'
245 mm x 2213.5 m	9 5/8" x 7,262'

FLUID TESTS

Type /Test #	Interval (m)	Recovery	Flow Rate (m3/d) / Amount
Production Test #1	1659.6 -1659.9	gas	44,740
Production Test #2	98.7 – 1638.6	gas	36,812
		water	32 - .64
Production Test #3	1594.1 – 1615.4	gas	39,643
WLT #2	1645.3	mud	9,000cc (1645.3 m)
WLT #3	1633.7	mud	10,000cc (1633.7 m)

GEOLOGIC TOPS :

Formation	MD (m)

Banquereau Fm	In casing
Wyandot Fm	1592.2
Dawson Canyon Fm	1672.4
Petrel Mb	1797.1
Logan Canyon Fm	1877.6
Marmora Mb	1877.6
Sable Mb	2155.8
Cree Mb	2291.2
Naskapi Mb	3307.1
Missisauga Fm	3517.4
(Upper)	3517.4
(Lower)	4434.8
(approx. top O.P.)	4495.8

ADDITIONAL REPORTS AND LOGS:

Eagle D-21 Well History Report
Borehole Compensated Sonic Log, Run 1-5
Compensated Neutron Density Log, Run 1 & 2
4-Arm High Resolution Continuous Dipmeter, Run 1-4
Dual Induction-Laterolog, Run 1-5
Micropaleo, Palyn, Geochem, & Source Rock Analysis
Geochemical Evaluation (x-ref 8623-R5-1P)
Micropaleontology & Palynology Summary
Directional Log, Run 1-4
Velocity Survey
Velocity Analysis
Collar Log, Run 1 &2
Formation Tester, Tests 1-9
Compensated Formation Density Log, Run 1
Gamma Ray Neutron Log, Run 1

SAMPLES

Sample Type:	**Interval (m)**	**# of Samples**	**Remarks**
Washed Cuttings	512– 4660	1,025	
Unwashed Cuttings	512 – 4660	1,039	
Canned Cuttings (dried)			
Sidewall Core	314.5 – 4660	186	

Slides	**Interval (m)**	**# of Slides**	**Sample Source**
Micropaleo slides	512 - 4660	146	Cuttings
Micropaleo slides	314.5 - 4628.0	181	Sidewall Core
Micropaleo slides	1572.7- 4648.2	114	Cuttings
Palynology slides	314.5 - 4628	157	Sidewall Core
Palynology slides	512 - 4660	218	Cuttings
Palynology slides	1638.6 - 1664	8	Core
Nannofossil slides	512 - 4660	198	Cuttings
Nannofossil slides	1638.6 - 1666.6	10	Core
Thin Sections	1311 - 1666.6	10	

Core:	**Interval (m)**	**Recovery (m)**	**# Boxes**
Core #1	1638.6 – 1648.9	30.8	8
Core #2	1648.9 – 1658.4	29.0	8
Core #3	1648.9 – 1667.5	28.7	8

Primrose A-41/ 1A-41 D86/D97

Well Summary

GENERAL INFORMATION (A-41)

D #	**86**
Company	Shell
Location	44°00'05.68" N 59°06'18.26" W
UWI	300A414410059000
Area	Scotian Shelf
Spud Date	October 15, 1972
Rig Release Date	January 27, 1973
Drilling Rig	Sedco H
Total Depth (m)	3616.0
Water Depth (m)	109.7
Rotary Table (m)	29.9
Well Status	P & A
Well Type	Delineation
Info. Release Date	Released

GENERAL INFORMATION (1A-41)

D #	**97**
Company	Shell
Location	44°00'05.68" N 59°06'18.26" W
UWI	300A414410059002
Area	Scotian Shelf
Spud Date	October 15, 1972
Rig Release Date	January 27, 1973
Drilling Rig	Sedco H
Total Depth (m)	3616.0
Water Depth (m)	109.7
Rotary Table (m)	29.9
Well Status	P & A
Well Type	Delineation
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
406 mm x 358.14 m	16" x 1,175'
340 mm x 1303.95 m	13 ⅝" x 4,278'
244 mm x 2111.98 m	9 ⅝" x 6,929.1'

WELL TEST SUMMARY

Type /Test #	Interval (m)	Recovery	Flow Rate/Amount
WLT #1	1822.7	formation tight, no recovery	
WLT #2	1780.3	formation tight, no recovery	
WLT #3	1702.9	misrun	
WLT #4	1648.4	gas cut mud	10,000 cc
WLT #5	1658.7	gas cut mud	10,000 cc
Prod. Test. 1	1551.4 – 1560.6	gas	max. 93,445 m^3/d decreased to 28,317 m^3/d
Prod. Test. 2	1511.8 – 1530	gas	*max.195,384 m^3/d decreased to 79,286 m^3/d
Prod. Test. 3	1421.6 – 1474.9	no recovery	

***Note:** Test 2 – Fluid produced after re-acidization 4.5 m^3 (approx. 60% acid water, 40% condensate).

GEOLOGIC TOPS (A-41):

Formation:	Depth (m)
Banquereau Fm	1416.12 (bottom)
Wyandot Fm	1416.12
Dawson Canyon Fm	1617.59
Logan Canyon Fm	1646.55
(Caprock)	1689.83
Argo Fm	1845.89

GEOLOGIC TOPS (1A-41):

Formation:	Depth (m)
Banquereau Fm	1416.12 (bottom)
Wyandot Fm	1416.12
Dawson Canyon Fm	1661.49
Petrel Mb	1677.64
Logan Canyon Fm	1717.26
Naskapi Mb	3296.45
Missisauga Fm	3558.89
Missisauga Upper Mb	3558.89

ADDITIONAL REPORTS AND LOGS:

Well History Report
4-Arm High Resolution Continuous Dipmeter (Computed), Run 1-4
Borehole Compensated Sonic Log, Run 1 & 2 (whipstocked)
Borehole Compensated Sonic Log, Run 1 & 2
Cement Bond Log, Run 1 (whipstocked)
Directional Log (Computed), Run 1-3
Dual Induction-Laterlog, Run 1 & 2 (whipstocked)
Dual Induction-Laterlog, Run 1 & 2
Electronic Thickness Log, Run 1
Electronic Thickness Tool Log, Run 1
Formation Tester, Tests 1-6
Microlog Caliper, Run 1
Micropaleontology, Palynology, Geochem, & Source Rock Analysis
Mud Gas Analysis
Simultaneous Compensated Neutron Form. Density Log, Run 1
Simultaneous Compensated Neutron Form. Density Log 1-2
Time Depth Curve Chart
Velocity Survey
Well History Log (Drilling Rate-Mud Gas Analysis etc.)

SAMPLES

Sample Type:	Interval (m)	# of Samples
Washed Cuttings	384 – 1859.3	234
Unwashed Cuttings	384 – 1859.3	240
Sidewall Core	449.58 – 1435.9	98
Canned Cuttings	398.5 – 562.9	37

Slides:		Interval (m)	Interval (ft)	# of Samples	Sample Source:
D086	Micropaleo Slides	374.9 - 1676.4	1230 - 6030	63	Cuttings
D086	Micropaleo Slides	928.4 - 1844.3	3046 - 6051	49	Sidewall Core
D086	Palynology Slides	374.9 - 1676.4	1230 - 6030	80	Cuttings
D086	Palynology Slides	1435.3 - 1621.5	4709 - 5320	8	Core
D086	Palynology Slides	1512.1 - 1620.6	4961 - 5317	4	Core
D086	Palynology Slides	455.67 - 1844.3	1495 - 6051	67	Sidewall Core
D086	Thin Sections	1463.6 – 1780.3	4802 - 5841	3	Core
D097	Micropaleo Slides	1847.08 - 2343.9	6060 - 7690	17	Cuttings
D097	Micropaleo Slides	1375.2 - 3554.5	4512 - 11662	40	Sidewall Core
D097	Palynology Slides	1847.08 – 3617.9	6060 - 11870	73	Cuttings
D097	Palynology Slides	1520.34 – 2481.9	4988 - 8143	2	Core
D097	Palynology Slides	1375.2 - 3554.5	4512 - 11662	47	Sidewall Core

Core: A-41	Interval (m)	Recovery (m)
1	434.8 – 1,435.9	**3.35**
2	1461.5 - 1470.6	5.48
3	1470.6 – 1477.4	6.71
4	1561.5 – 1570.9	3.35
5	1607.82 – 1616.9	8.07
6	1616.9 – 1624.6	6.71
Core: 1A-41	**Interval (m)**	**Recovery (m)**
7	1490.7 – 1524	5.18
8	2480.5 – 2489.6	9.14

Fluids

Test #	Interval (m)	Recovered From	Fluid Type
Prod. Test 2	1511.8 – 1530.1	Glass Valve	condensate
Prod. Test 2	-	-	water
Prod. Test 2*	**-**	**-**	water
* After 2nd acid job	**-**	**-**	

Primrose F-41 D95

Well Summary

GENERAL INFORMATION

D #	D95
Company	Shell
Location	44˚00'29.55" N 59˚07'06.52" W
UWI	300F414410059000
Area	Scotian Shelf
Spud Date	January 30, 1973
Drilling Rig	Sedco H
Rig Release Date	March 5, 1973
Total Depth (m)	2,592.3
Water Depth (m)	68.6
Rotary Table (m)	29.9
Well Status	P & A
Well Type	Delineation
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
406 mm x 296.27 m	16" x 972'
340 mm x 856.5 m	13 ⅜" x 2,810'
244 mm x 1833.39 m	9 ⅝" x 6,015'

WELL TEST SUMMARY

Type /Test #	Interval (m)	Recovery	Flow Rate/Amount
Prod. Test 1	1509.39 – 1530.11	gas	123 E3M3/D

GEOLOGIC TOPS

Formation:	Depth (m)
Banquereau Fm	1470.68 (bottom)
Wyandot Fm	1470.68
Dawson Canyon Fm	1657.52
Logan Canyon Fm	1696.54
Argo Fm	1981.53

ADDITIONAL REPORTS AND LOGS:

Borehole Compensated Sonic Log, Run 1-4
Simultaneous Compensated Neutron Formation Density Log, Run 1-3
4-Arm High Resolution Continuous Dipmeter (Computed), Run 1-3
Dual Induction-Laterlog, Run 1-3
Micropaleontology, Palynology, Geochem, & Source Rock Analysis
Well History Log (Drilling Rate, Mud Gas Analysis etc.)
Directional Log, Run 1-3
Completion Record
Caliper Log, Run 1-3
Formation Tester, Tests 1-5
Velocity Survey

SAMPLES

Sample Type:	Interval (m)	# of Samples
Washed Cuttings	1070 – 8500	417
Unwashed Cuttings	1070 – 8500	404
Sidewall Core	1050 – 8382	144
Canned Cuttings	2960 – 7520	98 (dried)

Slides:	Interval (m)	# of Samples	Sample Source:
Micropaleo slides	1,040 – 8,500	110	cuttings
Micropaleo slides	1,050 – 6,494	72	sidewall core
Palynology slides	1,130 – 8,500	72	cuttings
Palynology slides	1,050 – 6,494	67	sidewall core

Core:	Interval (FT)	Recovery (FT)	
1	5,128 – 5,152	16.5	5
2	5,152 – 5,195	33.5	10

Fluid:	Recovery
Prod. Test #1	condensate
Prod. Test #1	oil & water

Primrose N-50 D75

Well Summary

GENERAL INFORMATION

D #	75
Company	Shell
Location	44°59'48'.53" N 60°06'51.63" W
UWI	300N504400059000
Area	Scotian Shelf
Spud Date	March 14, 1972
Well Term. Date	April 21, 1972
Drilling Rig	Sedco H
Total Depth (m)	1713.00
Water Depth (m)	90.8 m
Rotary Table (m)	29.9 m
Well Status	P&A
Well Type	Exploratory
Info. Release Date	released

CASING:

Casing Size x Depth (metric)	**Casing Size x Depth (imperial)**
406 mm x 338.3 m	16" x 1,110'
244 mm x 1035.7 m	9 ⅝" x 3,397.9'
178 mm x 1691.9 m	7" x 5,550.8'

WELL TEST SUMMARY

Type /Test #	**Interval (m)**	**Recovery**	**Flow Rate / Amt.**	**Remarks**
Prod. Test #1	1643.8 – 1650.5	gas	6.8 E3M^3/D	(241 MCF/D)
		oil /condensate	300 b/d	(47.7 m^3/d)
Prod. Test #2	1612.41 – 1650.51	gas	70.8 E3M^3/D	(2.5 MMCF/D)
		oil / condensate	350 bbl/d	(55.6 MMCF/D)
Prod. Test #3	1498.4 – 1531.9	gas	476 E3M^3/D	(16.9 MMCF/D)
		oil /condensate	56.28 bbl/d	8.95 m^3/d
Prod. Test #4	1371.6 – 1400.2	gas		
		oil / condensate	385.13 E3M^3/D	13.6 MMCF/D
Prod. Test #5	1371.6 – 1379.2	gas	492.7 E3M^3/D	17.4 MMCF/D
		oil / condensate	109.6 bbl/d	17.4 m^3/d

(Test information taken from NEB schedule of wells)

GEOLOGIC TOPS

Formation:	**Depth (m)**
Banquereau Fm	1356.38 (bottom)
Wyandot Fm	1356.38
Dawson Canyon Fm	1445.99
Petrel Mb	1453.3
Logan Canyon Fm	1497.8
(Caprock)	1571.57
Argo Fm	1707.51

ADDITIONAL REPORTS AND LOGS:

Well History Report
4-Arm High Resolution Continuous Dipmeter, Run 1 & 2
Borehole Compensated Sonic Log, Run 1 & 2

Compensated Neutron Density Log, Run 1 & 2
Directional Log, Run 1 & 2
Dual Induction-Laterolog, Run 1-3
Formation Tester
Gamma-Ray Neutron Log, Run 1
Report on Geochemical Evaluation (x-ref 8623-R5-1P)
Micropaleontology, Palynology, & Stratigraphy of the Shell Primrose N-50 Well
Micropaleontology & Palynology Report
Micropaleontology, Palynology Summary & Source Rock Analysis
Micropaleontology, Palynology, Geochem, & Source Rock Analysis
Production Test Data
Temperature Log, Run 1
Velocity Analysis
Velocity Survey
Summary of Test Results-Iroquois, Dawson Canyon & Wyandot Fm.

SAMPLES

Sample Type:	**Interval (ft)**	**# of Samples**
Washed Cuttings	1230 – 5600	181
Unwashed Cuttings	1230 – 5600	181
Sidewall Core	1250 – 5608	203

Slides:	**Interval (ft)**	**# of Samples**	**Sample Source:**
Micropaleo	1200-5600	52	Cuttings
Micropaleo	1250-5608	129	Sidewall Core
Palynology	1200-5600	54	Cuttings
Palynology	1250-5608	172	Sidewall Core

Fluid:	**Interval (ft)**		
DST #1	5,390 – 5,415 5,008 – 5,026	NA	condensate
DST #3	4,916 – 4,922 4,928 – 4,946	NA	condensate
DST #5	4,500 – 4,525	NA	condensate

Triumph P-50 D12

Well Summary

GENERAL INFORMATION

D #	12
Company	Shell
Location	43°39’51’.62” N 59°51’02.36” W
UWI	300P504340059450
Area	Scotian Shelf
Spud Date	August 4, 1971
Well Term. Date	October 10,1971
Drilling Rig	Sedneth 1
Total Depth MD (m)	4595

Water Depth (m)	90.2
Rotary Table (m)	25.9
Well Status	P&A
Classification	Gas Show
Well Type	Exploration
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	**Casing Size x Depth (imperial)**
406 mm x 299.6 m	16" x 983'
340 mm x 1032.1 m	13 ⅜" x 3,386'
244.5 mm x 2292.4 m	9 ⅝" x 7,521'

GEOLOGIC TOPS

Formation:	**Depth (ft)**	**Depth (m)**
Banquereau Fm	5,573	1698.6
Wyandot Fm	5,573	1698.6
Dawson Canyon Fm	5,994	1826.9
Logan Canyon Fm	6,500	1826.9
Marmora Mb	6,500	1981.2
Sable Mb	7,915	2412.5
Cree Mb	8,546	2604.8
?Fault	13,075	3985.3
Naskapi Mb	13,075	3985.3
Missisauga Fm	13,454	4100.8
(Approx.Top OP)	14,750	4495.8

ADDITIONAL REPORTS AND LOGS:

Well History Report
The Micropaleontology, Paleontology & Stratigraphy of the Shell Triumph P-50 Well
Paleontological Report
Borehole Compensated Sonic Log, Run 1-3
3-Arm Focused Continuous Dipmeter (computed), Run 1-3
Directional Log (Computed), Run 1-3
Velocity Survey
GMA Stratigraphic Modeling System (mylar)
Geochemical Evaluation (x-ref. 8623-R005-001P)
Sonigram Velocity Analysis
Compensated Formation Density Log, Run 1-2, (Whipstocked)
Compensated Formation Density Log, Run 1, (Original Hole)
Well History Report – Shell Triumph P-50
Dual Induction-Laterlog, Run 1-4, (Whipstocked)
Dual Induction-Laterlog, Run 1,1-4
Gamma Ray (mylar) S & D
Paleontological/Palynological/Source Rock Analysis Report

SAMPLES

Sample Type:	**Interval (m)**	**Interval (ft)**	**# of Samples**
Washed Cuttings	301.8 – 4593.3		919
Unwashed Cuttings	301.8 – 4593.3		926
Canned Cuttings	2133.6 – 4595.4		83
Sidewall Core	341.4 – 4585.1		277

Slides:	Interval (m)	# of Samples	Sample Source:
Micropaleo slides	301.7 – 4593.3	182	cuttings
Micropaleo slides	389.5 – 4585.1	129	sidewall core
Palynology slides	292.6 – 2,996.2	58	cuttings
Palynology slides	389.5 – 3,032.7	114	sidewall core

West Chebucto K-20 D296

Well Summary

GENERAL INFORMATION

D #	296
Company	Husky Bow Valley et al
Location	43°39'44.63" N 59°47'32.44" W
UWI	300K204340059450
Area	Scotian Shelf
Spud Date	April 5, 1986
Well Term. Date	August 11, 1986
Drilling Rig	Bow Drill II
Total Depth (m)	5369
Water Depth (m)	93.6
Rotary Table (m)	22.8
Well Status	P & A
Well Type	Exploration
Classification	Gas Show
Info. Release Date	Released

CASING:

Casing Size x Depth (metric)	Casing Size x Depth (imperial)
762 mm x 250.0 m	30" x 280'
508 mm x 623.0 m	20" x 2,044'
340 mm x 2142.4 m	13 ⅜" x 7,029'
244 mm x 3822.2 m	9 ⅝" x 12,540'
178 mm x 5129.0 m	7" x 16,827'

WELL TEST SUMMARY

Type /Test #	Interval (m)	Recovery	Flow Rate (m3/d)
DST # 1	5020 – 5036	gas	116,766
		condensate	tstm
		water	25
DST # 2	4639 - 4660	gas	tstm

GEOLOGIC TOPS

Formation:	Depth (m)
Banquereau Fm	1731.8 (bottom)
Wyandot Fm	1731.8
Dawson Canyon Fm	1826.0
Petrel Mb	1900.0 - 1902.0
Logan Canyon Fm	2011.0

Marmora Mb	2011.0
Sable Mb	2345.0
Cree Mb	2513.0
Naskapi Mb	3754.0
Missisauga Fm	4008.4
(Approx. top OP)	~4036.0

ADDITIONAL REPORTS AND LOGS:

Well History Report
Merged Data Log (Field Print), Run 2, 3, 4, 5, 6
Compensated Neutron Log, Run 1-3
TVD Borehole Compensated Sonic Log, Run 1 & 2
TVD Dual Induction Log, Run 1 & 2
Compensated Bond Variable Density Log, Run 1
Sidewall Core Results, Run 1-4
Arrow Plot, Run 1
Natural Gamma Ray Spectrometry Log, Run 1
Depth Derived Borehole Compensated Sonic Log, Run 1-6
Dual Induction-SFL, Run 1-6
High Resolution Continuous Dipmeter, Run 1-3
Completion Record, Run 1
Cyberlook Pass 1 (Field Print), Run 2, 5
RFT Quicklook (Field Print), Run 2, 4, 5
Core Analysis
DST Sample Analyses
Core Photo's (Whole Diameter), Core 1-6
Core Photo's (Slabbed), Core 8
Water Analysis
Fingerprint Hydrocarbon Comparative Analysis
Cement Volume Log, Run 1-3
True Vertical Depth Compensated Neutron Litho Density, Run 1
Simultaneous Compensated Neutron-Litho Density, Run 1-3
Composite Geological Well Data Log (1 vellum copy)
Plan and Field Notes
Drilling Data Pressure Log
Formation Evaluation Log (1 vellum copy)
Temperature Data Log
Mud Resistivity Log
Wireline Data Pressure Log
Pressure Evaluation Log
Cost Plot
Drilling Parameters Plot
Dual Induction-SFL (Reduced Mylar)
Well Test Analysis
Arrow Plot, Run 1
Final Report-Palynology
Velocity Report, Run 1-4
Repeat Formation Tester, Run 1-3

SAMPLES

Sample Type:	**Interval (m)**	**# of Samples**
Washed Cuttings	635 – 5369	928
Unwashed Cuttings	700 – 5369	872
Canned Cuttings (Dried)	640 – 5369	465
Sidewall Core	2040 – 2150	6

Slides:	**Interval (m)**	**# of Samples**	**Sample Source:**
Micropaleo Slides	630-5360	159	Cuttings
Micropaleo Slides	1400-4025	111	SWC
Micropaleo Slides	4045.50	1	Core
Micropaleo Slides	1770 - 5020	100	Cuttings
Palynology Slides	630 - 5360	157	Cuttings
Palynology Slides	1400 - 5369	417	Cuttings
Palynology Slides	1015 - 5325	509	Sidewall Core
Palynology Slides	4045.4 - 5368.40	51	Core
Palynology Slides	630 - 5360	157	Cuttings
Thin Section Slides	3686.40 - 4702.05	4	Core

Core:	**Interval (m)**	**Recovery (m)**
#1	3682.50 - 3704.30	21.60
#2	3704.30 - 3731.90	27.60
#3	4036.50 - 4064.10	27.60
#4	4636.00 - 4644.20	6.80
#5	4644.25 - 4671.70	27.50
#6	4677.20 - 4704.60	26.85
#7	5026.40 - 5048.50	22.10
#8	5360.20 - 5369.40	9.20

Fluids:

Test #	**Interval (m)**	**Recovery**	**Recovered From**
DST #1	5,020 – 5,036	water	waterline
DST #2	4,639 – 4,660	water	choke manifold

3. Released Sample Reports

- Contact the CNSOPB's Geoscience Research Centre for availability.
- Web: http://www.cnsopb.ns.ca/geoscience/geoscience-research-center
- Email mverrall@cnsopb.ns.ca
- Phone: (902)468-3994
- Geological Survey of Canada-Atlantic reports and publications can be downloaded directly from the GSC-A website: http://www.nrcan.gc.ca/earth-sciences/science/geology/gsc/17100

Report #	*Completed*	*Report Description*	*Author/Company*
SR2006-1	2006	Correlation of the Pre-Albian Strata in the Glenelg, Chebucto, Annapolis and Crimson Areas, Scotian Shelf, Offshore Eastern Canada – Biostratigraphic Correlation of the Missisauga Formation and Equivalent Strata in 6 Wells: (**Chebucto K-90, West Chebucto K-20, Glenelg J-48, Annapolis G-24, Crimson F-81)**	Fenton, J.P.G. / Fugro Robertson Limited
SR2005-6	2006	Evaluation of the petroleum systems by 1D and 2D numerical modelling and geochemical analysis in the area of most recent exploration wells on the Deepwater Scotian Slope, Offshore Nova Scotia.	Mukhopadhyay, Dr.P.K./ Global Geoenergy Research Ltd.
SR2004-1	2004	Nova Scotian Shelf: Biostratigraphic and Sequence Stratigraphic Correlation of the Early Cretaceous Strata in Seven Wells **(Annapolis G-24, Balvenie B-79, Louisbourg J-47, Southampton A-25, Tantallon M-41, West Chebucto K-20)**	Pardon, A.M.. / Robertson Research International Limited
SR2010-5	2010	Fission Track Pilot Study: Thermal Inversion of the Scotian Margin **(Abenaki J-56, Venture B-43, Panuke H-08, Thebaud I-93, Wenonah J-75, Crimson F-81, Balvenie B-79)**	Zentilli, M./ For OETR Association
SR2009-4	2012	A revised biostratigraphic and well-log sequence-stratigraphic framework for the Scotian Margin, offshore Eastern Canada Publication: Can.J. Earth Sci. 49: 1417-1462 (2012) doi:10.1139/e2012-070	Weston, J.F. & Cooper, M.K.E., MacRae, R.A., Ascoli, P., & Fensome, R.A. & Williams, G.L., Shaw D./ RPS Energy, Saint Mary's University, GSC Atlantic, Biostratigraphic Associates International
SR2007-3B	2010	Controls on diagenesis of Lower Cretaceous reservoir sandstones in the western Sable Subbasin, offshore Nova Scotia Publication: Sedimentary Geology 224 (2010) 65-83	Karim, A., Pe-Piper, G., Piper, D.J.W./ Saint Mary's University, Geological Survey of Canada (Atlantic)
SR2007-3	2008	Distribution of diagenetic minerals in Lower Cretaceous sandstones and their relationship to stratigraphy and lithofacies: Glenelg, Thebaud and Chebucto fields, offshore Scotian Basin (GSC Open File Report 5880)	Karim, A., Pe-Piper, G., Piper, D.J.W./ Geological Survey of Canada (GSC)

Report #	*Completed*	*Report Description*	*Author/Company*
SR2008-2	2011	Contributions to the ichnology and ichnofabrics of Deep Marine Systems, (PhD Thesis)	Phillips, C. / Memorial University
SR2001-13A	2005	Diagenesis and porosity reduction in the Late Cretaceous Wyandot Formation, Offshore Nova Scotia: a comparison with Norwegian North Sea chalks Publication: Bulletin of Canadian Petroleum Geology VOL.53, NO. 3 (September, 2005) P.237-249	Ings, J.S., MacRae, R.A., Shimeld, J.W., Pe-Piper, G./ Saint Mary's University & Geological Survey of Canada (Atlantic)
SR2001-7	2001	Rock Eval. Data **(Acadia K-62, Adventure F-80, Erie D-26, Como P-21, Dover A-43, Demascota G-32, Eagle D-21, Primrose A-41)**	Weilens, H./ GSC Atlantic
SR1999-7	2001	Frontier Reservoirs of the North Atlantic Margin (**Acadia K-62, Albatross B-13, Alma K-85, Citadel H-52, Cohasset CP 6A P-51, Dauntless D-35, Demascota G-32, S. Desbarres O-76 Evangeline H-98, Glenelg E-58, Glenelg E-58A, Glenelg J-48, Glenelg J-48A, Hercules G-15, Louisbourg J-47, MicMac D-89, MicMac H-86, Moheida P-15, Mohican I-100, Naskapi N-30, N. Triumph G-43, Oneida O-25, Onondaga B-94, Panuke B-90, Penobscot B-41, Peskowesk A-99, Primrose A-41, Sable Island 3H-58, Shubenacadie H-100, SW Banquereau F-34, Tantallon M-41, Thebaud I-93, Venture B-43, Venture B-52, W. Chebucto K-20, W. Olympia O-51)**	James, N., (Project Manager) Duxbury, L.M. (Editor) / Robertson Research International Limited
SR1999-2	1999	Eastern Canada Margin Oil Study (**Alma K-85, Alma F-67, Glenelg E-58, Glenelg J-48, Glenelg J-49, Chebucto K-90, N. Triumph G-43, Panuke PP1, Panuke B-90, Intrepid L-80, Cohasset CP6B, Cohasset CP3A, Cohasset CP9, Cohasset CP4, Cohasset CP6, Cohasset D-42, Cohasset A-52, Balmoral M-32, Thebaud I-93 Thebaud C-74, South Sable B-44, Thebaud I-94, Thebaud P-84, Cohasset L-97, Sable Island O-47, Sable Island E-48, Sable Island H-58, Sable Island 2h-58, Sable Island 3H-58, S. Venture O-59, Primrose N-50, Primrose A-41, Olympia O-51, W. Venture C-62, Olympia A-12, Venture B-52, Venture H-22, Venture B-43, Arcadia J-16, Bluenose 2G-47, Citnalta I-59, Penobscot L-30, Banquereau C-21, Uniacke G-72)**	Barss, M.S., Bujak J.P., Williams, G. L. / GeoMark Research, Inc.
SR1993-4	1993	Oil Correlation Summary with Appendix B-Ion Chromatograms for Representative Oils from the NS Basin. (**Cohasset D-42, Penobscot L-30 Venture B-52, Alma F-67, Alma K-85)**	Amoco Canada Petroleum Company Ltd.
SR1991-2	1991	Characterization and Maturation of Selected Cretaceous and Jurassic Source Rocks and Crude Oil, Scotian Shelf	Mukhopadhyay, P.K./ Global GeoEnergy Research, Ltd.

Report #	*Completed*	*Report Description*	*Author/Company*
SR1990-3	1990	Characterization and Maturation of Selected Oil and Condensate Samples and Correlation with Source Beds, Scotian Shelf	Mukhopadhyay, P.K./ Global GeoEnergy Research, Ltd.
SR1979-1	1979	Palynological Zonation and Correlation of Sixty-seven Wells, Eastern Canada (including **Argo F-38, Bluenose G-47, Cohasset D-42, Cree E-35, Dauntless D-35, Esperanto K-78, Eurydice P-36, Fox I-22, Hercules G-15, Iroquois J-17, MicMac J-77, Missisauga H-54, Mohawk B-93, Mohican I-100, Naskapi N-30, Ojibwa E-07, Oneida O-25, Primrose A-41, Primrose 1a A-41, Sable Island C-67, Sauk A-57, Triumph P-50, Wyandot E-53)**	Barss, M.S., Bujak J.P., Williams, G. L./ Geological Survey of Canada (GSC)
SR1988-4	1988	Mesozoic-Cenozoic Foraminiferal, Ostracod and Calpionellid Zonation of the North Atlantic Margin of North America: Georges Bank-Scotian Basins and Northeastern Grand Banks Biostratigraphic Correlation of 51 Wells GSC Open File # 1791 (including **Mohawk B-93, Mohican I-100, Naskapi N-30, Moheida P-15, Acadia K-62, Oneida O-25, Demascota G-32, Cree E-35, Cohasset P-52, Onondaga E-84, Glenelg J-48, Migrant N-20, Thebaud I-94, Penobscot L-30, Intrepid L-80, Sable Island C-67, Olympia A-12, Abenaki J-56, South Venture O-59, Venture B-43, Venture B-13, Uniacke G-72, Citnalta I-59, MicMac H-86, Wyandot E-53, Primrose A-41, Primrose N-50, Primrose F-41, Sauk A-57, West Esperanto B-78, Louisburg J-47, Jason C-20, South Griffin J-13, Dauntless D-35**)	Ascoli, P./ Atlantic Geoscience Centre (GSC)
SR2002-11	2003	High Resolution Chronostratigraphy and Depositional Environments of Eleven Wells, Scotian Shelf, Offshore Eastern Canada **(Abenaki J-56, Alma F-67, Dauntless D-35, Dover A-43, Louisbourg J-47, N. Banquereau I-13, Sachem D-76, Sauk A-57, S. Desbarres O-76, S.W. Banquereau F-34, W. Chebucto K-20)**	Sikora, P.J., Rubik, Rd.., Howe, Dr. R., Stein, Dr. J., / The Stratigraphy Group, University of Utah
SR2001-20	2002	Eagle D-21 Biostratigraphy and Correlation of the Paleocene to Hauterivian Section (vol I) **Glenelg H-38 and West Chebucto K-20**, Scotian Shelf Wells, Offshore Eastern Canada (vol II)	Weldon, M. / Robertson Research International Limited
SR2000-14	2001	Geochemical analyses of selected samples for 11 wells, Fluid Inclusion Data, Geochem-TOC & Tock Eval **(Glooscap C-63, Glenelg J-48, W. Chebucto K-20, Tantallon M-41, s. Griffin J-13, Dauntless D-35, Mohican I-100, Glooscap C-63, Iroquois J-17, Argo F-38, Adventure F-80)**	GeoChem Laboratories, Inc.
SR2000-7	2004	Sedimentology and Stratigraphy of an Ancient Progradational Terrigenous Clastic Shelf Margin,	Cummings, D.I./ University of Ottawa

Report #	*Completed*	*Report Description*	*Author/Company*
		Missisauga Formation (Upper Jurassic-Lower Cretaceous), Offshore Nova Scotia, Canada (**Alma K-85, Alma F-67, Como P-21, Glenelg E-58A, Glenelg E-58, Glenelg H-38, Glenelg N-49, North Triumph G-43, Olympia A-12, Onondaga B-96, Onondaga O-95, Panuke B-90, Panuke F-09, Panuke F-99, Panuke J-99 PP2, Sable Island C-67, Sable Island 3H-58, South Sable B-44, Thebaud C-74, Thebaud 3, Thebaud I-93, Thebaud 3, Venture B-13, Venture B-43, Venture B-52, Venture H-22, W. Venture C-62, W. Venture N-91)**	
SR2003-4 x-ref SR2002-11	2004	High Resolution Chronostratigraphy and Depositional Environments of Five Wells, Scotian Shelf, Offshore Eastern Canada Phase III **(Glenelg J-48, Eagle D-21, South Venture O-59, Tuscarora D-61, South Griffin J-13)**	The Stratigraphy Group, University of Utah
SR1994-2	1994	Vitrinite Reflectance of Dispersed Organics from Thirteen Scotian Shelf Wells GSC Open File #3115. **(Bluenose 2G-47, Citadel H-52, Eagle D-21, Intrepid L-80, Merigomish C-52, N. Triumph B-52, Onondaga B-96, Sable Island C-67, South Desbarres O-76, South Venture O-59, Thebaud I-93, Venture D-23, Wenonah J-75)**	Avery, M.P. / Atlantic Geoscience Centre (GSC)
SR1993-3	1993	A maturation framework for Jurassic sediments in the Sable Subbasin, offshore Nova Scotia **(Eagle C-21, Venture D-23, Glenelg J-48, Venture D-23, Glenelg J-48) (**Publication: Bulletin of Canadian Petroleum Geology Vol 41, No 2 (June 1993) P244-257)	Williamson , M-C., Villeneuve, M.E. / Atlantic Geoscience Centre (GSC)
SR1991-5	1991	Implications of apatite fission track analysis for the thermal history of the Scotian Basin offshore Nova Scotia, Canada **(Thebaud I-94, West Olympia O-51, Cohasset A-52, Merigomish C-52, Kegeshook G-67, Eagle D-21)**	Li, G., Ravenhurst, C.E., Zentilli, M. / Dalhousie University

4. Geophysical Data – Report Descriptions

Project Number	*Parcels*	*Year*	*Actual KM*	*Description*
NS24-G075-003P	4-6	2003	3356.6	Regional Ultra-Deep 2D Seismic Survey Covering The Scotian Shelf And Scotian Slope
NS24-M055-001E	5-6	2003	2259.00 KM²	Geophysical 3D Seismic Reflection Survey Cortland-Empire Prospect, South East Sable Island, Nova Scotia X-REF: NS24-V003-002P
NS24-T063-002P	1-5	2002	4385.84	Offshore Eastern Canada Regional 2D Scotian Slope & Laurentian Channel (NS-103 Processing Report) X-REF: 8924-T063-003P For (CNLOPB)
NS24-E040-001E	1, 3-4	2001	1260 KM²	Marine 3D Seismic Reflection Survey For Cree, Glenelg, Eagle and Chebucto
NS24-V003-004P	1, 3-5	2001	1333.8 KM²	3D Seismic Nova Scotia Offshore (Phase 2)
NS24-V003-003P	1, 3-5	2000	3042.86 KM²	3D Seismic Nova Scotia Offshore (Phase 1)
NS24-G065-001P	1-3, 5-6	1999	25006.836	2D Marine Deep Water Seismic Reflection Survey South Of Saint Pierre (South-South East And South West Of Sable Island)
NS24-M003-010E	1	1999	551.7 KM²	Exclusive 3D Seismic Survey Conducted By Geco-Prakla For Mobil Oil Canada
NS24-V003-002P	1, 3-5	1999	1302.21 KM²	Veritas 3D Deep Water Survey Offshore Nova Scotia
NS24-G005-001P	1-2, 5-6	1998	14772.229	2D Seismic Survey Non-Exclusive, CA 1998 & Barrington 1998 X-REF: NS24-G005-002P, 003P, 004P
NS24-M003-007E	1	1998	1443 KM²	3D Marine Seismic Survey - Marmora, South Sable and Arcadia Geophysical Final Report
NS24-W013-001P	1-6	1998	11587 KM	East Canada 1998 2D Geophysical Spec Program Project - Final Report
NS24-M003-006E	1, 3-4	1997	1100 KM²	3D Marine Streamer Seismic Program El-2356, Alma, North Triumph And El-2357 Grand Pré
NS24-M003-003E THEBAUD	1-2	1996	283.89 KM²	Sable Area 3D Ocean Bottom Cable Reflection Seismic Program 1996 Thebaud
NS24-M003-003E VENTURE	1-2	1996	262.77 KM²	Sable Area 3D Ocean Bottom Cable Reflection Seismic Program 1996 Venture
8624-S006-050E	3-4	1987	195.2	1987 Seismic Acquisition - Nova Scotia Shelf X-REF: 8624-G005-013P
8620-H006-009E	1-5	1985	821.65	2D Reflection Marine Seismograph, Chebucto-Sable Island Survey X-REF: 8624-H006-010E; 8624-H007-001E
8624-H006-010E	1, 3, 4	1985	2684.79	Reflection Marine Seismograph, South Sable 3D Survey, Chebucto Area X-REF: 8620-H006-009E (Filed 10E) 8624-H007-001E

Project Number	*Parcels*	*Year*	*Actual KM*	*Description*
8624-S006-041E	3	1985	10469.75	3D Survey Nova Scotian Shelf Glenelg Area Final Report On 1984/85/86 Seismic Processing,
8624-S006-048E	1, 3, 4	1985	19300	Seismic Acquisition - Nova Scotia Shelf X-REF: 8624-S006-023E , 8624-S006-035E, 8624-S006-027E, 8624-S006-037E, 8624-S006-033E, 8624-S006-043E
8624-W013-005P	2, 5-6	1985	1754	Marine Seismic Processing Report-East Coast Shelf And Slope X-REF: 8624-W013-001P, 002P, 004P
8620-H006-008E	1-4	1984	637 KM	Beausejour & Gully Chebucto Reflection Marine Seismograph Survey X-REF: 8624-H006-005E - Beausejour
8620-J008-001E, 002E	1-6	1984	4693.48	Report On The Geophysical Survey, ICG Parks Offshore Exploration Partnership 1982-83 East & West Sable Island Areas
8624-H006-007E	3	1984	276 KM	1984 Seismic Program South Sable III (E.A. 146)
8624-H006-008E	1, 2, 6	1984	478	Husky Marine Seismic Survey; Report On Seismic Program, Gully Block
8624-M003-049E	1-2	1984	2456.45	1984 Marine Seismic Survey, Sable Island Area
8624-S006-042E	5	1984	674.00	Reflection Seismic Survey - Nova Scotia Offshore Slope, Panasonic and Browns Bank Areas
8624-S006-043E	1, 2, 4	1984	2556.4	1984 Seismic, Nova Scotia Shelf - North And South Sable Areas Final Report
8624-W013-002P	1-2	1984	1104	1984 1984 Marine Speculative Survey, Sable Island Maritimes Offshore West Phase II - Scotian Shelf
8620-H006-007E	1-6	1983	2428.08	1983 Seismic Program, South Sable Island E.A. 146 Seismic Reflection Survey
8620-S014-006E	1-6	1983	13239.85	Marine Reflection Seismic Survey Over The Scotian Shelf Area (Including West Slope Area, West Banquereau, East Banquereau, Sable, And Scotia Basin)
8624-B011-004E	1-2	1983	2428.08	Deep Reflection Seismic In Hawkeye, Mulgrave, Lunenburg, Glenelg And Triumph Areas (North Sable) X-REF: 8624-B011-006E
8624-H006-004E	1-5	1983	448.43	Geophysical Survey, Chebucto Block (E.A. 781-004), Scotian Shelf
8624-M003-047E	1	1983	1252.28	2D Marine Seismic Survey, East Sable Island Area
8624-N005-002E	3-4	1983	821.275	Final Report On Reconnaissance Seismic Reflection Survey, Sable Island Area
8624-S006-035E	1, 4-6	1983	2081.2	Seismic Reflection Survey Final Report, Panasonic, Glace Bay and East Panasonic Areas X-REF: 8624-S006-043E
8624-S006-036E	4	1983	686.03	Reflection Seismic Final Interpretation Report Nova Scotia

Project Number	*Parcels*	*Year*	*Actual KM*	*Description*
8624-S006-037E	1-5	1983	3750.14	Reflection Seismic In Hawkeye, Mulgrave, Lunenburg, Glenelg And Triumph Areas X-REF: 8624-S006-043E -1 Bathymetry Map
8624-W013-001P	1-2, 4-6	1983	3910.21	Marine Seismic Reflection, Gravity, Magnetics, Speculative Survey 1983 X-REF: 8624-W013-004P, 002P, 005P
8620-H006-001E, 006E	4	1982	735.85	Seismic Program, Mohican Block E.A. 781-005
8620-H006-002E	1-5	1982	692.63	Chebucto E.A. 781-004 Scotian Shelf Report ON 1982 Seismic Program
8624-B011-003E	2	1982	2270.07	Deep Reflection Seismic Program, North Abenaki X-REF: 8624-P028-029E
8624-D003-003E	1	1982	1040.95	X-REF 8624-D009-002E, 8624-D003-003E, 8624-H007-010E
8624-M003-044E, 045E	1-2	1982	1421.88	2D Marine Geophysical Survey, Sable Island Area
8624-S006-032E	4, 6	1982	5716.72	Reflection Seismic Program - Browns Bank, Medway, South Acadia, Mira Bay, Glace Bay, Tor Bay And Python Areas On The Slope
8624-S006-033E	1-6	1982	4832.36	Reflection Seismic Final Report, North And South Sable Areas X-REF: 8624-S006-027E, 8624-S006-023E
8624-O011-001E	1-2, 4-6	1981	832	Scotian Shelf Seismic Program 1981
8624-S006-027E	1, 3-6	1981	2353	Reflection Seismic Survey - South Sable Area X-REF: 8624-S006-043E, 8624-S006-023E
8624-S006-028E, 031E	5	1981	2447.87	Reflection Seismic Survey - South Acadia, Panasonic, E. Panasonic And Python
8624-M003-035E	1	1980	1527.29	Marine Geophysical Survey, Sable Island Area
8624-S006-023E	1-5	1980	3003	Reflection Seismic Survey - North And South Sable Area X-REF: 8624-S006-027E, 8624-S006-043E
8624-M003-033E	1-2	1979	1261.625	Marine Seismic Survey Sable Island Area
8620-M003-022E	1	1974	523.02	Seismic Reflection Survey, Geophysical Operations And Interpretation Reports X-REF: 8620-M003-015E Citnalta, Intrepid And Venture Areas
8624-A004-018E	4	1974	232.86	Report On Geophysical Activity, Scotian Shelf Area, 'Joe Phillips' Acreage X-REF: 8624-A004-015E
8620-M003-015E	2	1973	80.46	Seismic & Gravity Survey, Sable Island Area X-REF: 8624-M003-019E; 8624-M003-015E
8624-M003-014E, 018E	4-5	1973	1923.17	Geophysical Survey, South Sable Island Area X-REF: 8624-M003-018E
8620-S006-009E	1, 4-6	1972	9248.64	Geophysical Survey On Scotian Slope, South West Sable

Project Number	*Parcels*	*Year*	*Actual KM*	*Description*
				Island, Eagle And Primrose X-REF: 8620-S006-002E; 8624-S006-009E
8620-S024-001P	6	1972	1655.2	1972 Regional Non-Exclusive (Participation) Survey
8624-C020-001E	1-2	1972	5259.19	Report On Seismograph Survey Nova Scotian Shelf Area - Final Report X-REF: 8620-C020-001E, 002E
8624-M003-010E	1-2	1972	444.18	Geophysical Survey, Sable Island Area Twelve Fold Marine Seismic X-REF: 8626-M003-001E
8624-M003-011E	2	1972	1308.86	1972 Geophysical Survey - Geophysical Report, South Sable Island
8624-S006-009E	4	1972	9248.6	Geophysical Progress Report East Coast Offshore NS X-REF: 8620-S006-009E, 8620-S006-002E
8624-M003-004E	1-2	1971	1786.32	Geophysical Survey in The Sable, South Sable and Banquereau Areas
8624-S006-008E	1, 3-4	1971	9116.68	1971 Geophysical Report, Scotian Shelf
8624-S006-005E, 006E	1, 6	1970	683.95; 14721.87	1970 Geophysical Report on Geophysical Survey Wyandot, Ojibwa, Abenaki, Iroquois, Huron, Cree And Argo Areas

5. Program Location Maps

Figure 01: Location Map for NS24-M055-001E

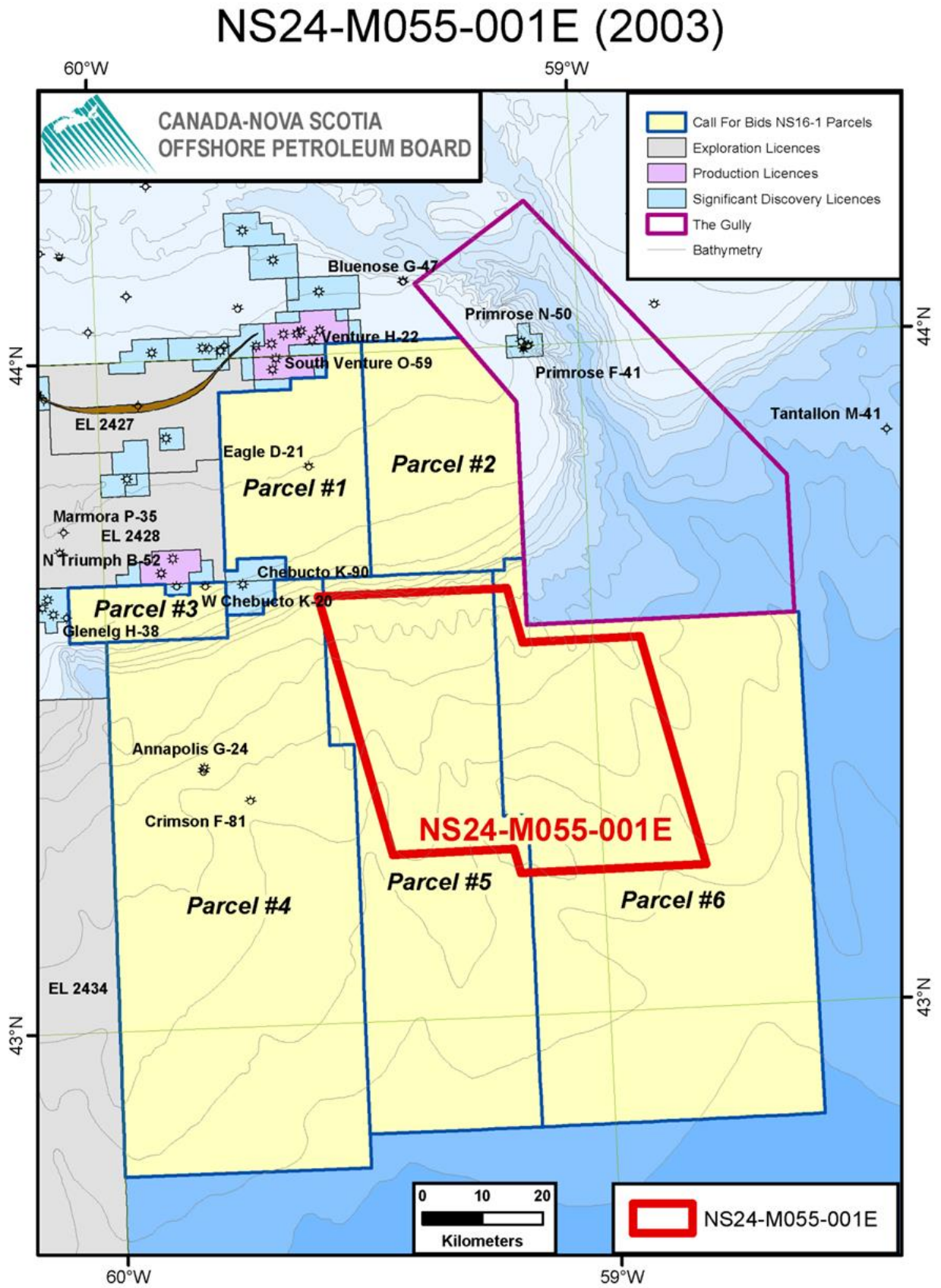


Figure 02: Location Map for NS24-G075-003P

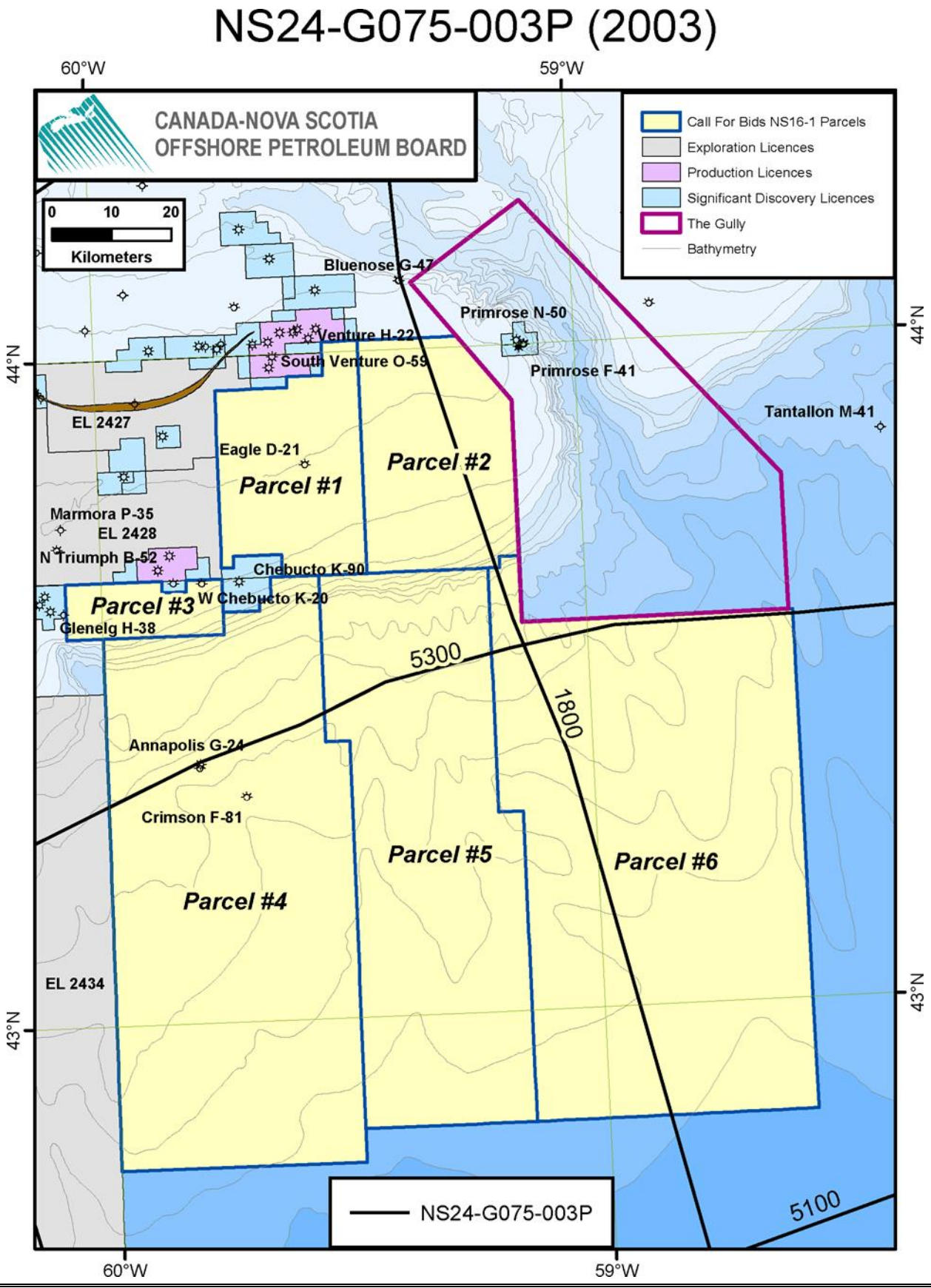


Figure 03: Location Map for NS24-T063-002P

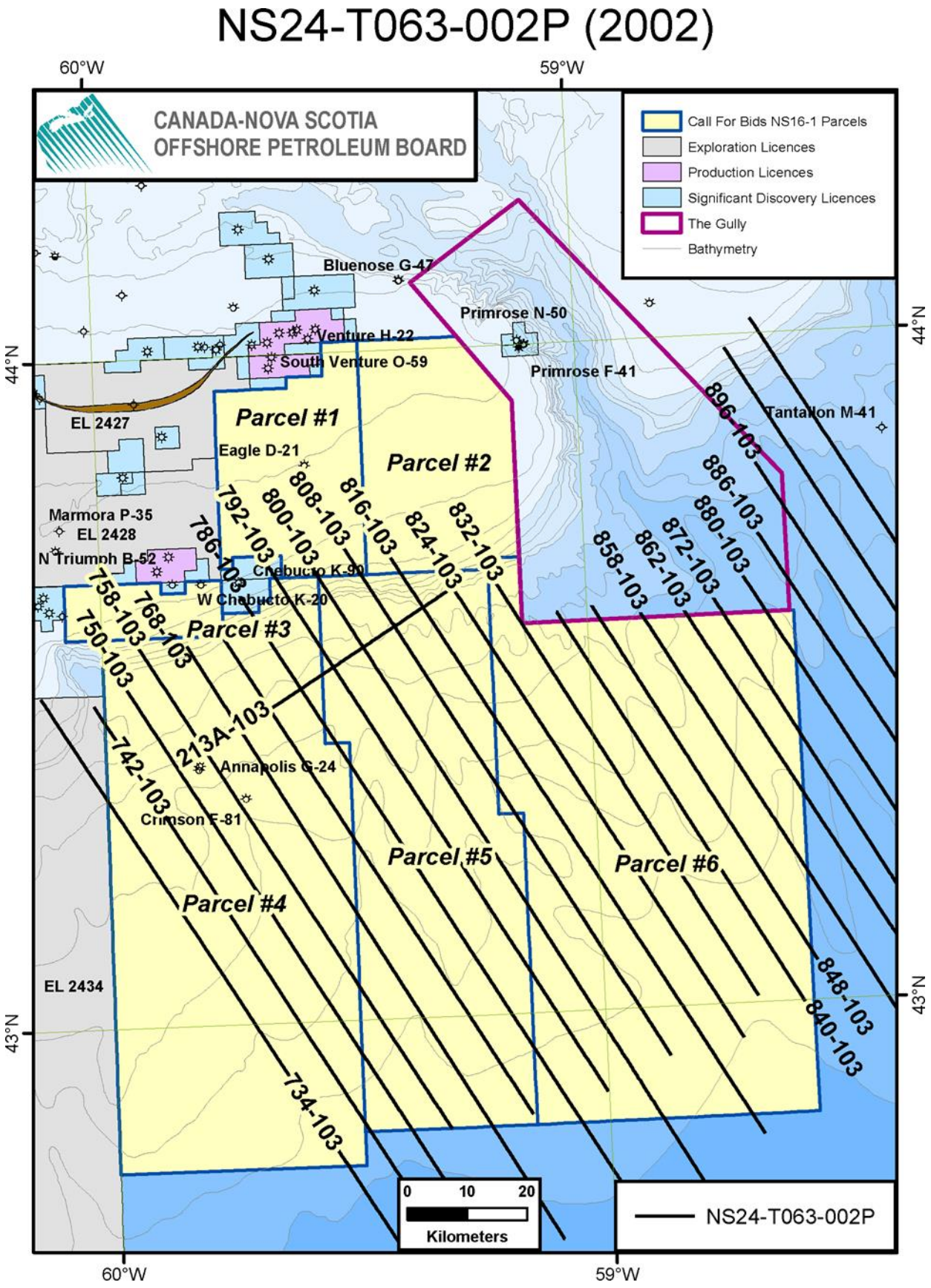


Figure 04: Location Map for NS24-E040-001E

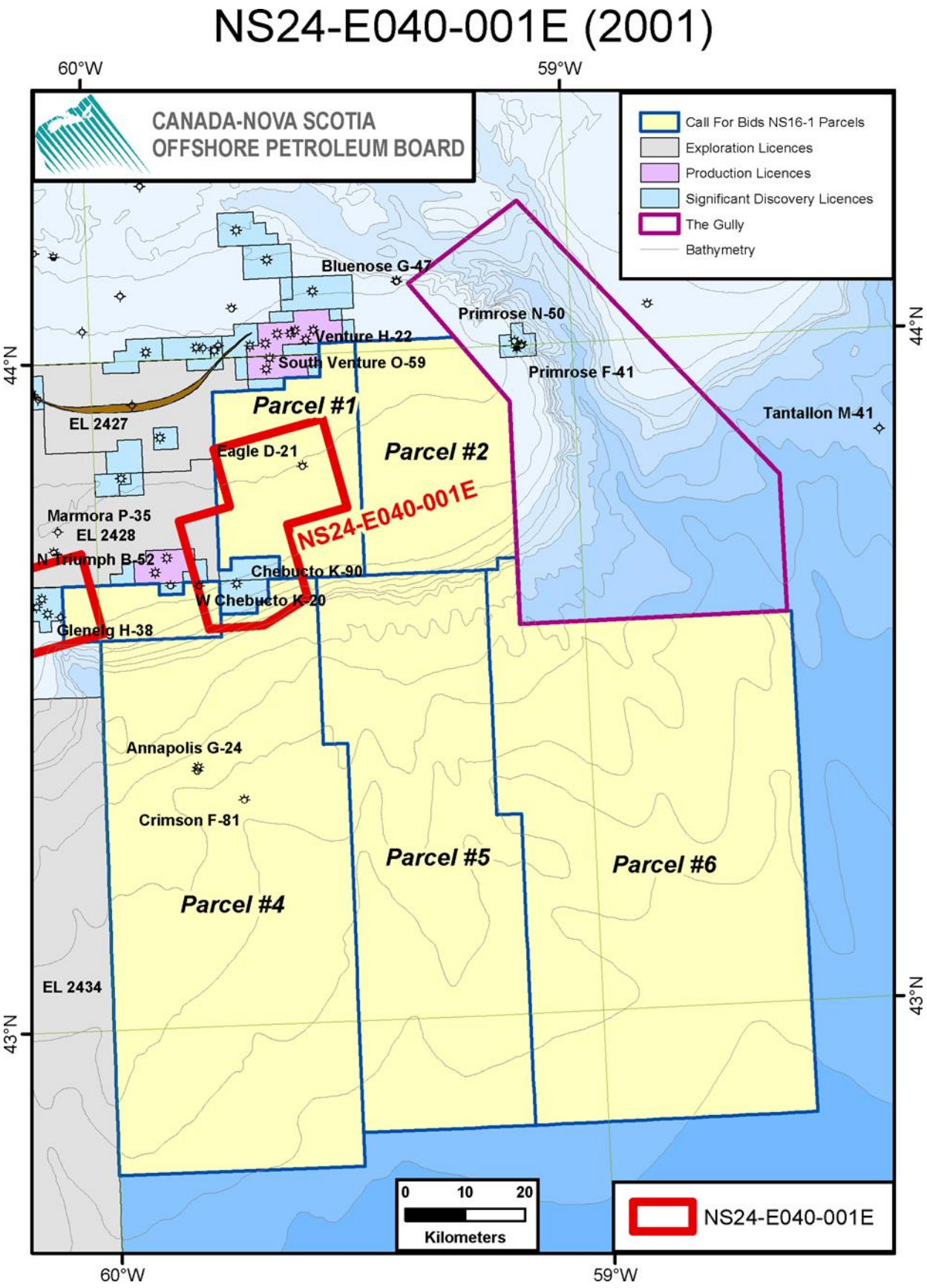


Figure 05: Location Map for NS24-V003-002P, 003P, 004P

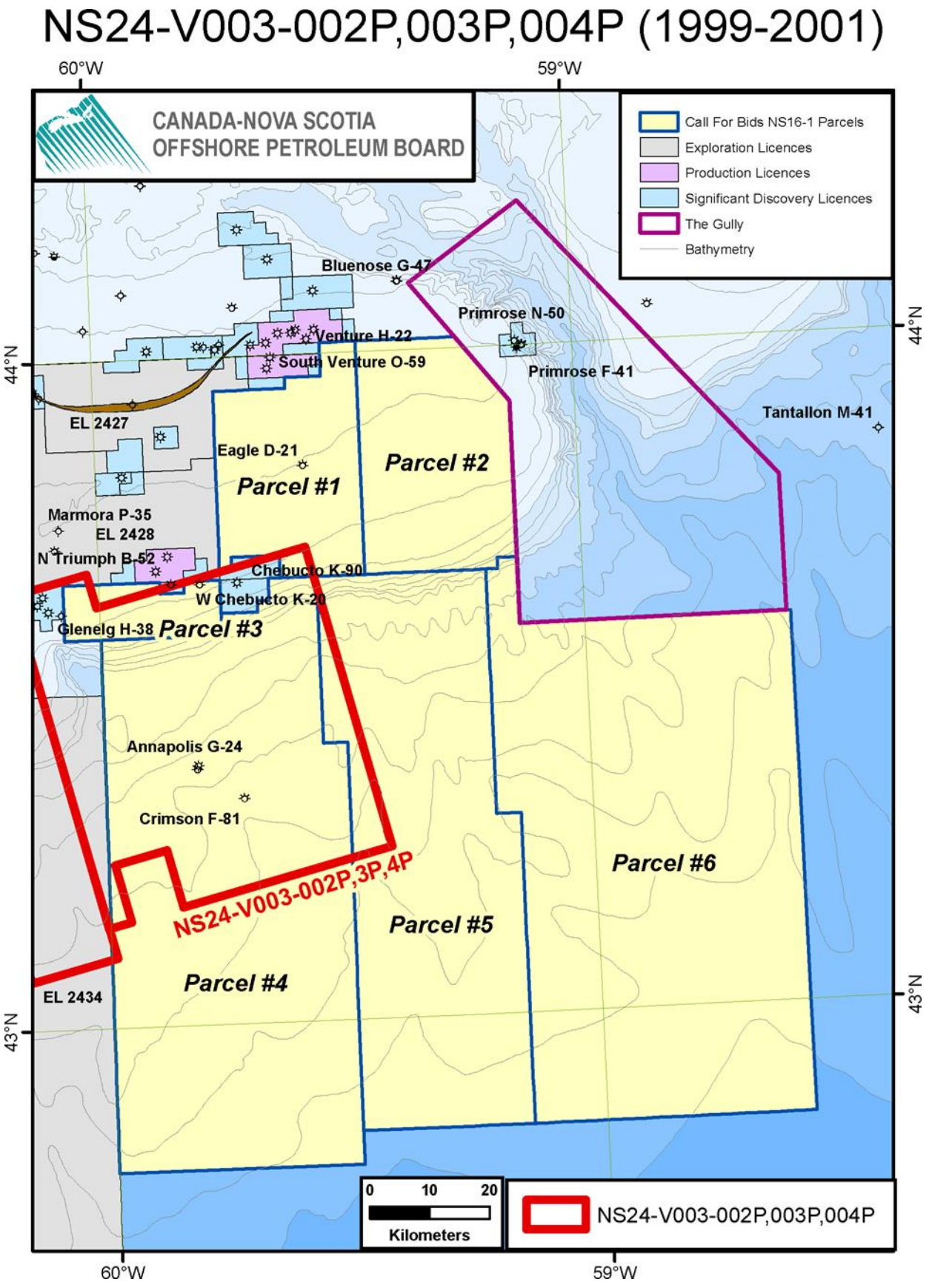


Figure 06: Location Map for NS24-G065-001P

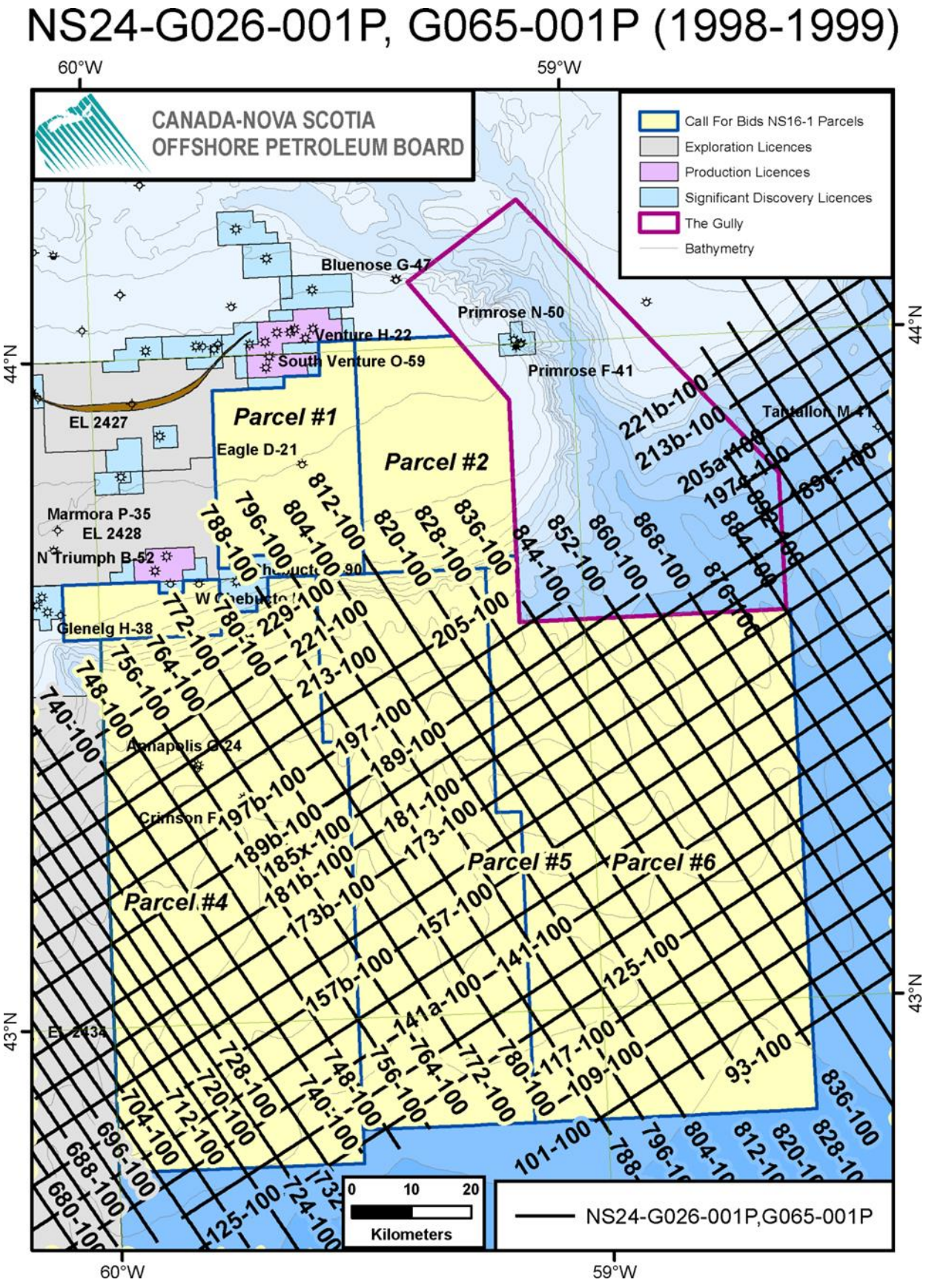


Figure 07: Location Map for NS24-M003-010E

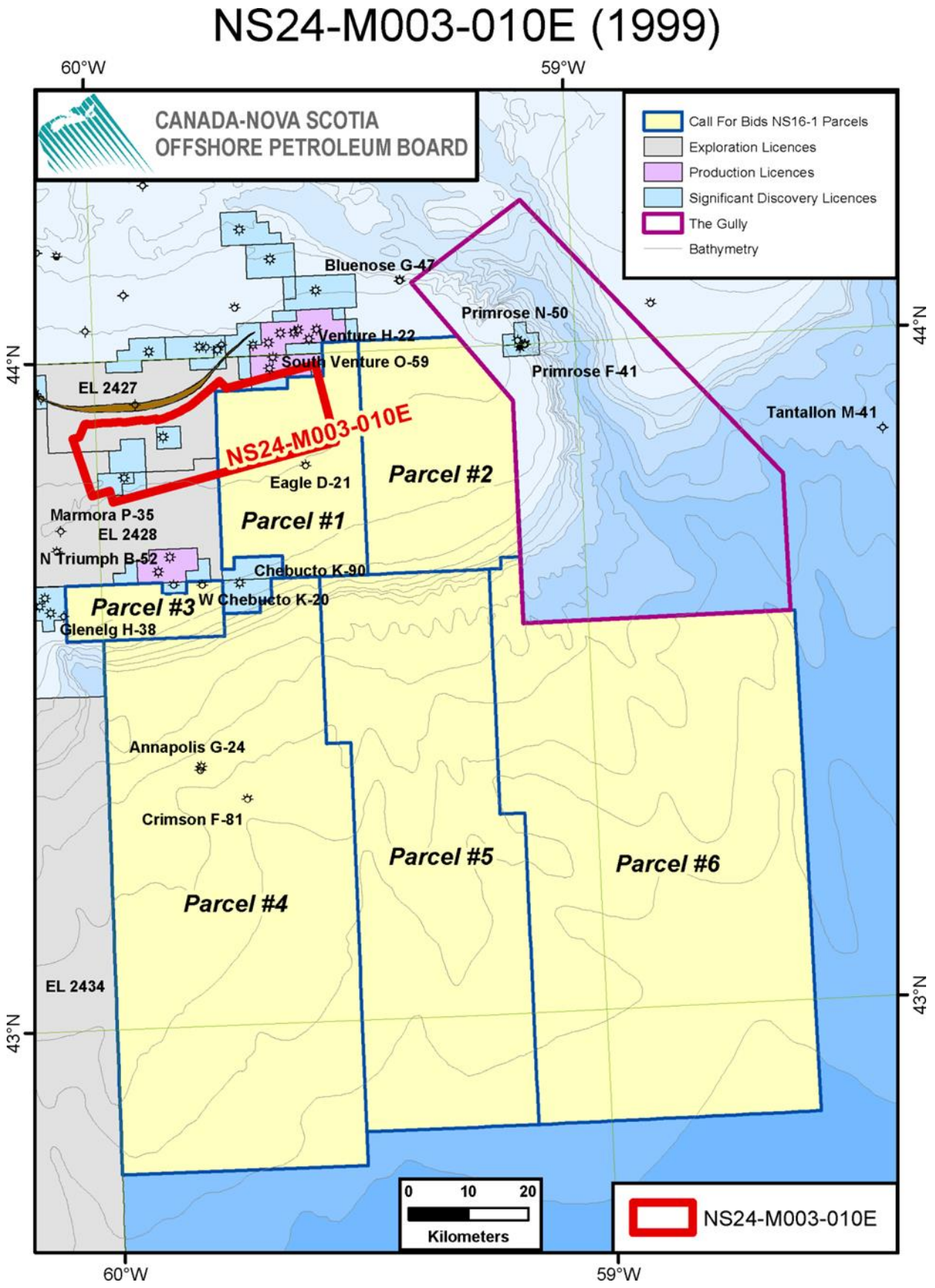


Figure 08: Location Map for NS24-G005-001P

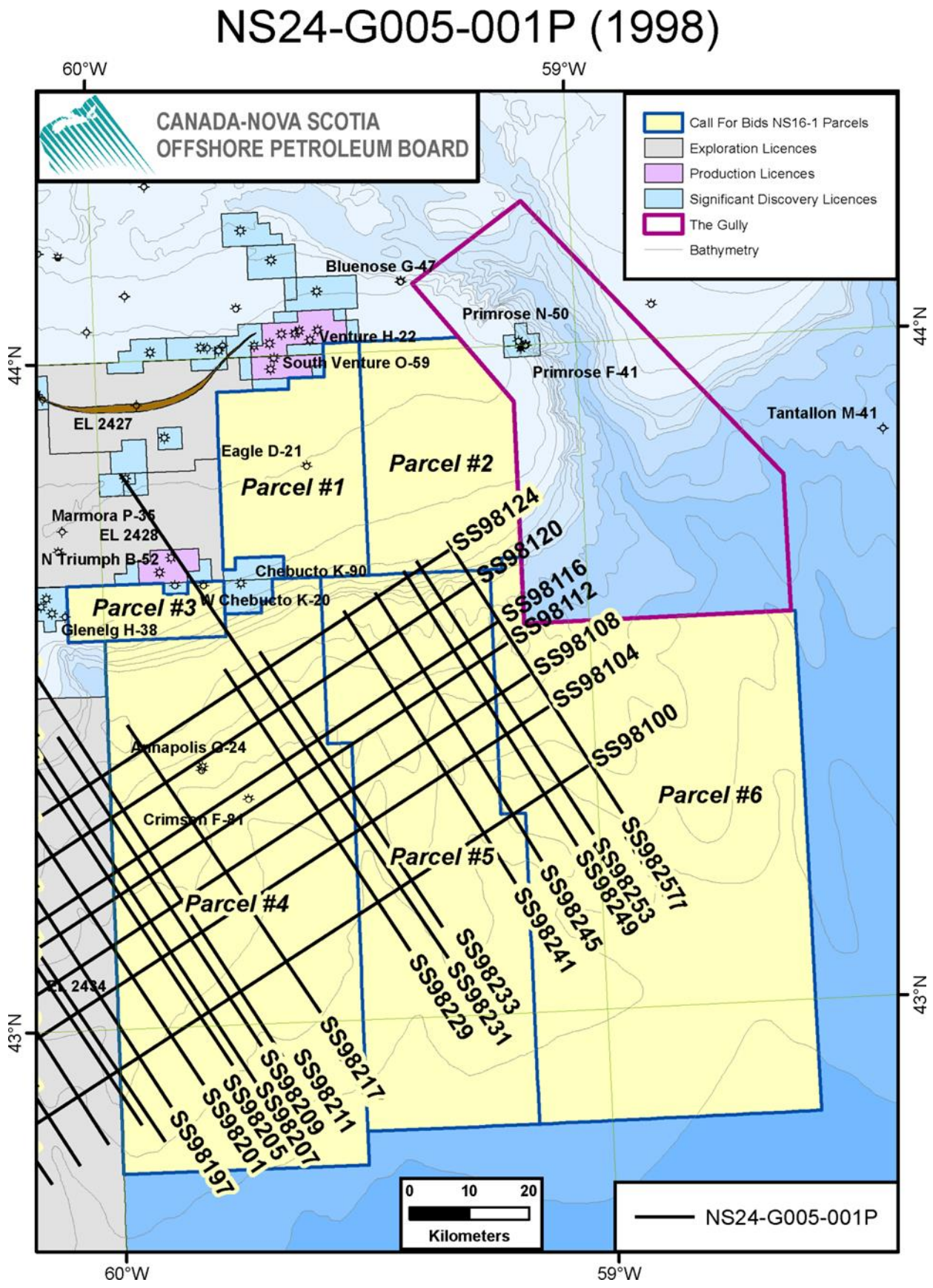


Figure 09: Location Map for NS24-W013-001P

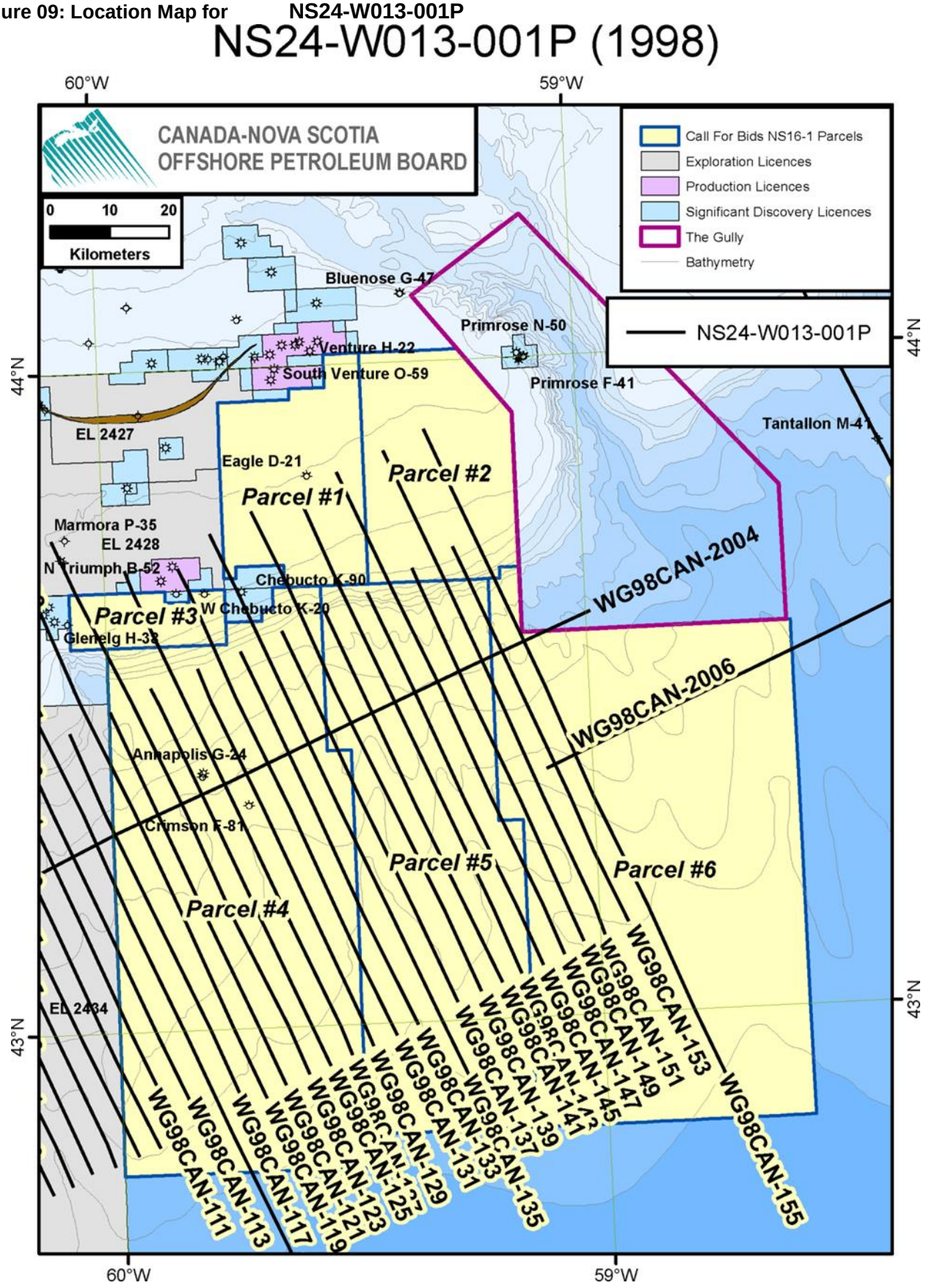


Figure 10: Location Map for NS24-M003-006E

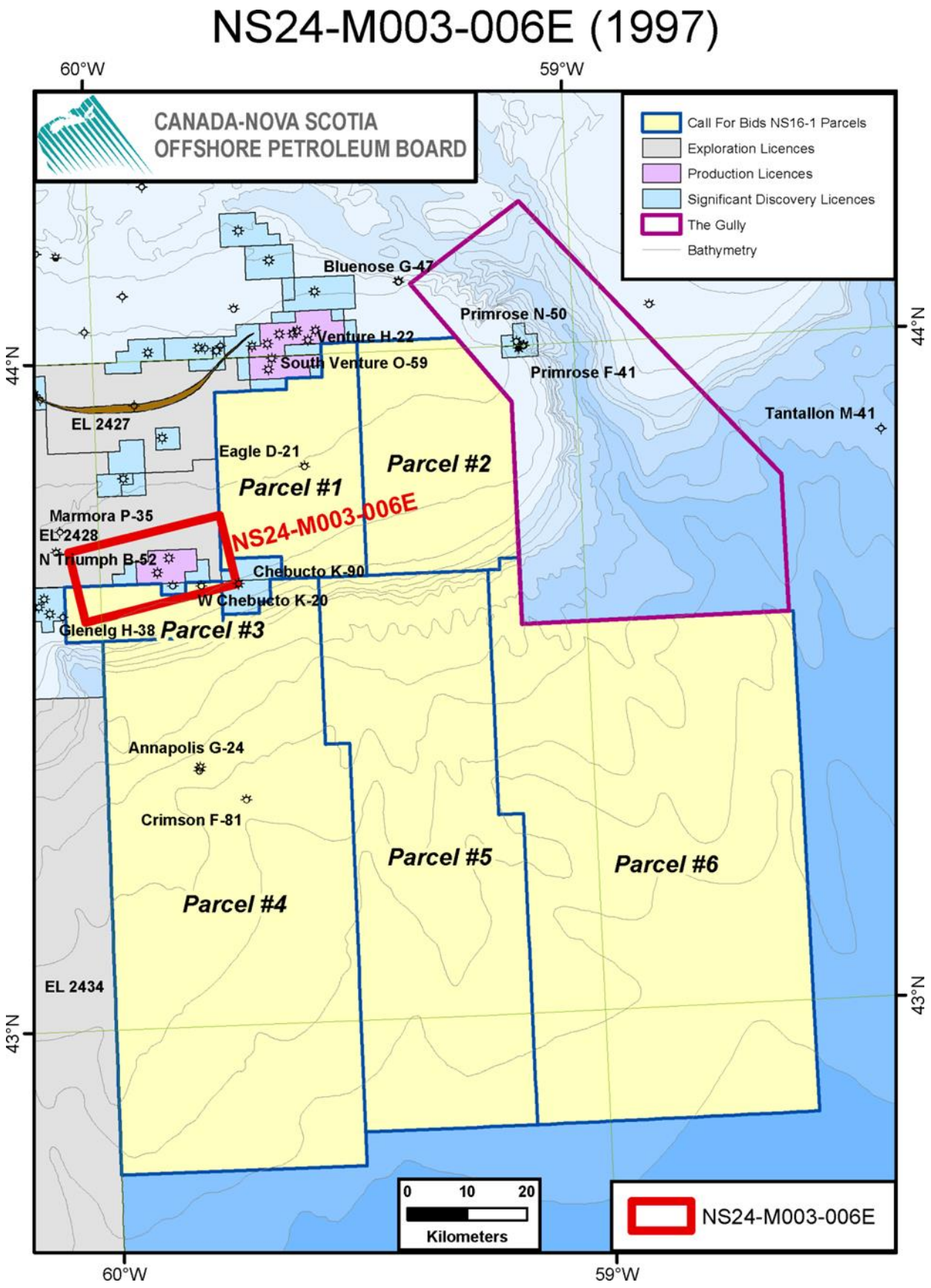


Figure 11: Location Map for NS24-M003-003E THEBAUD/VENTURE

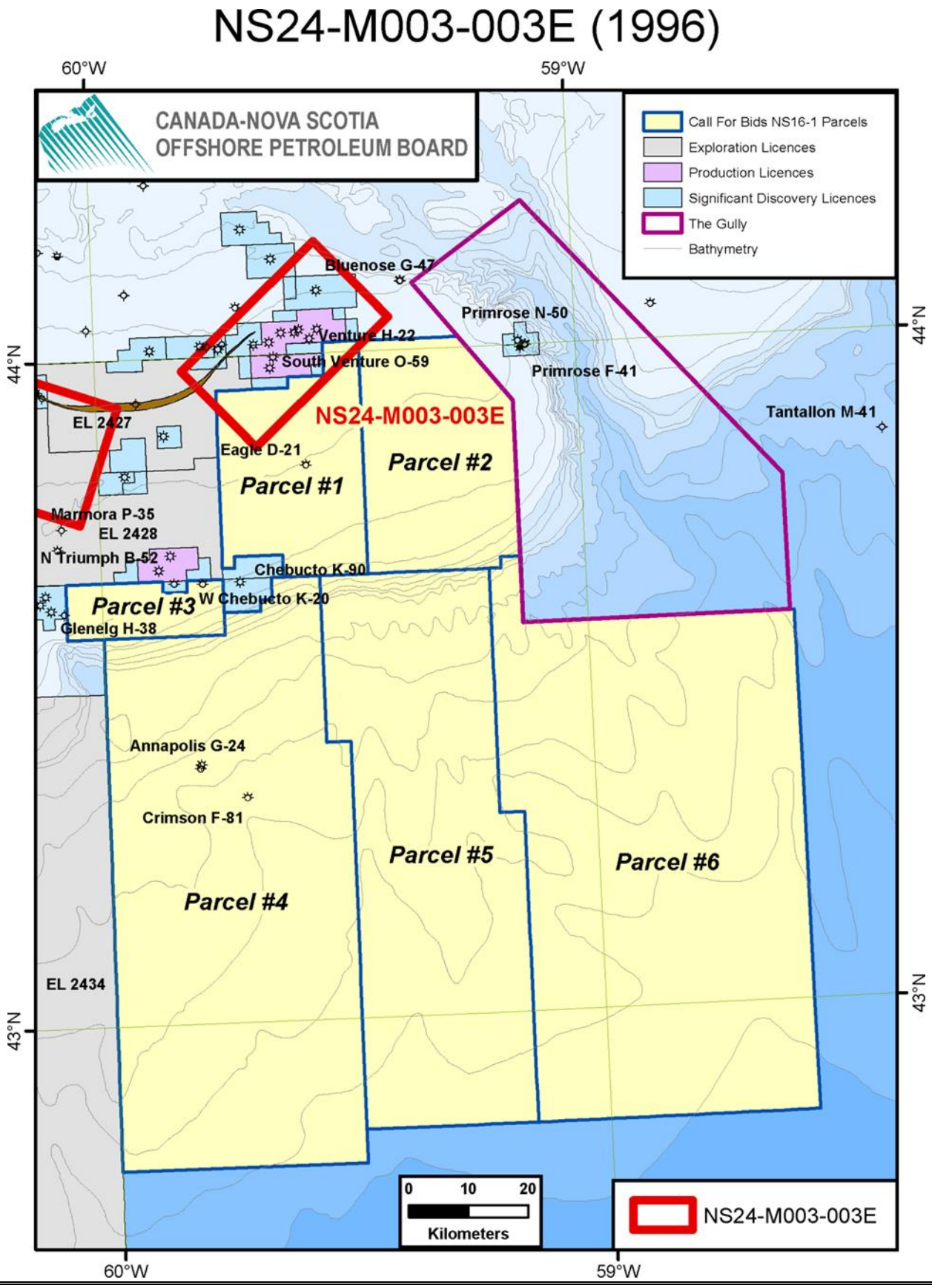


Figure 12: Location Map for 8624-W013-005P

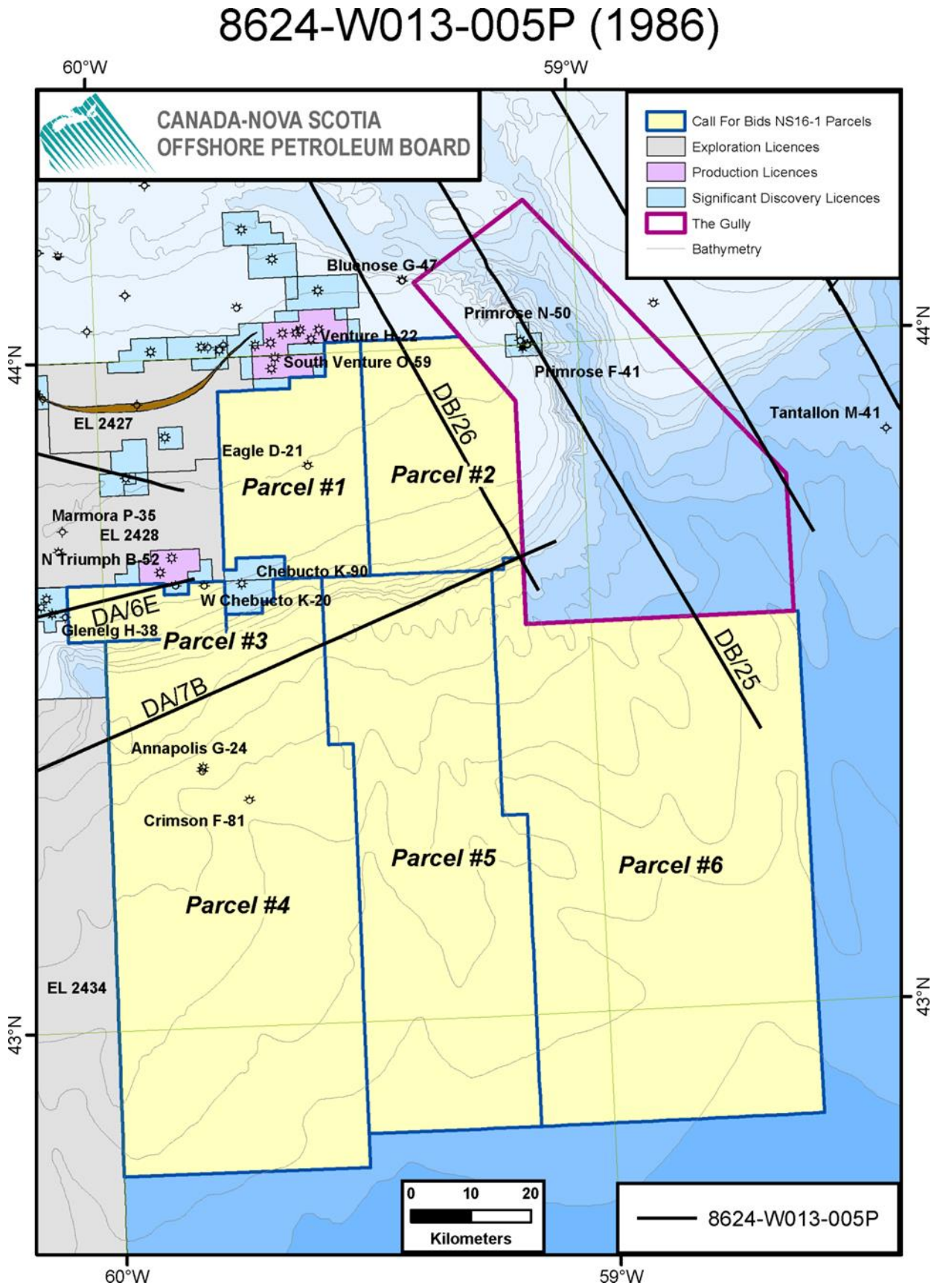


Figure 13: Location Map for 8624-H006-010E

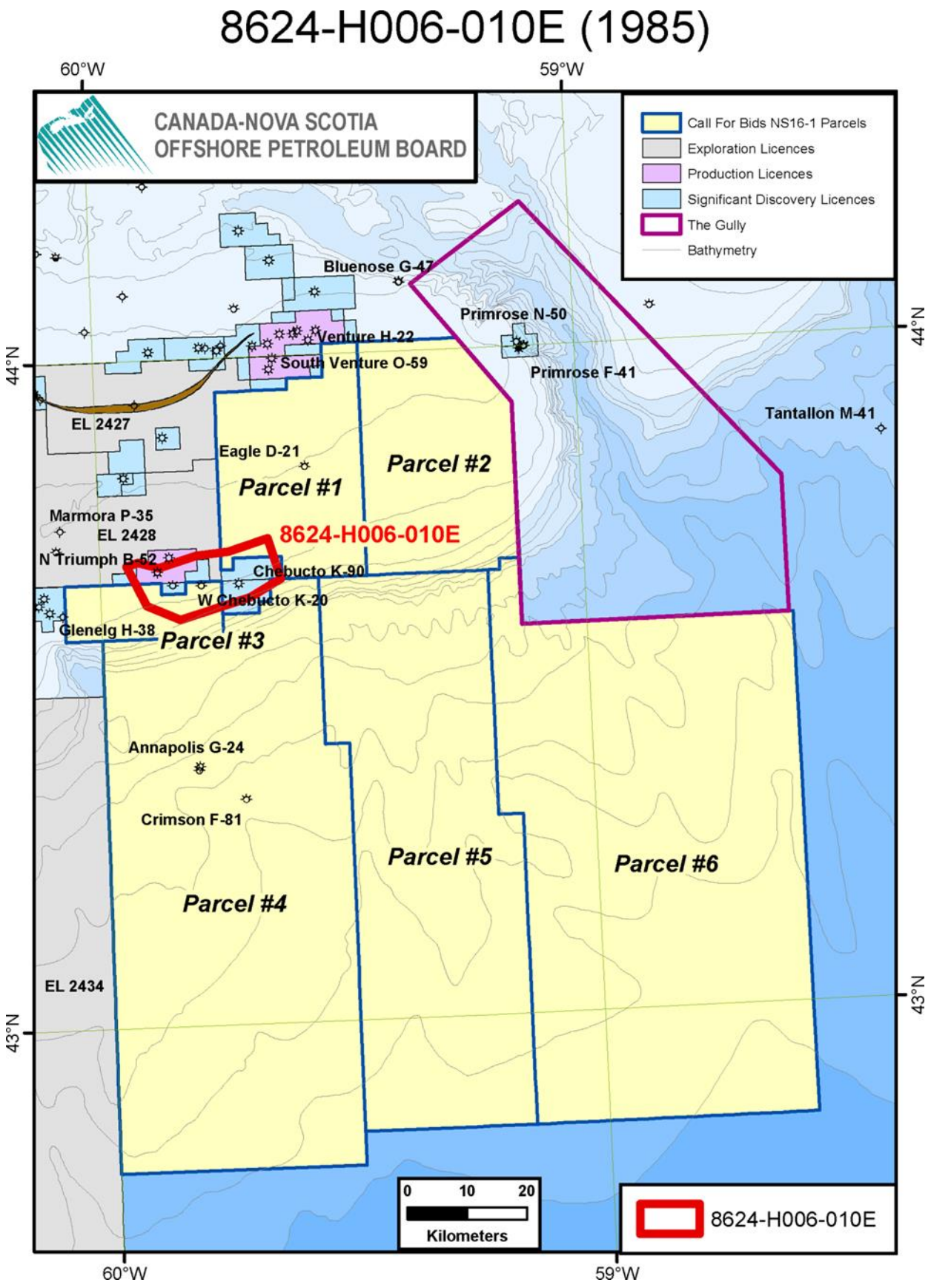


Figure 14: Location Map for 8620-H006-009E

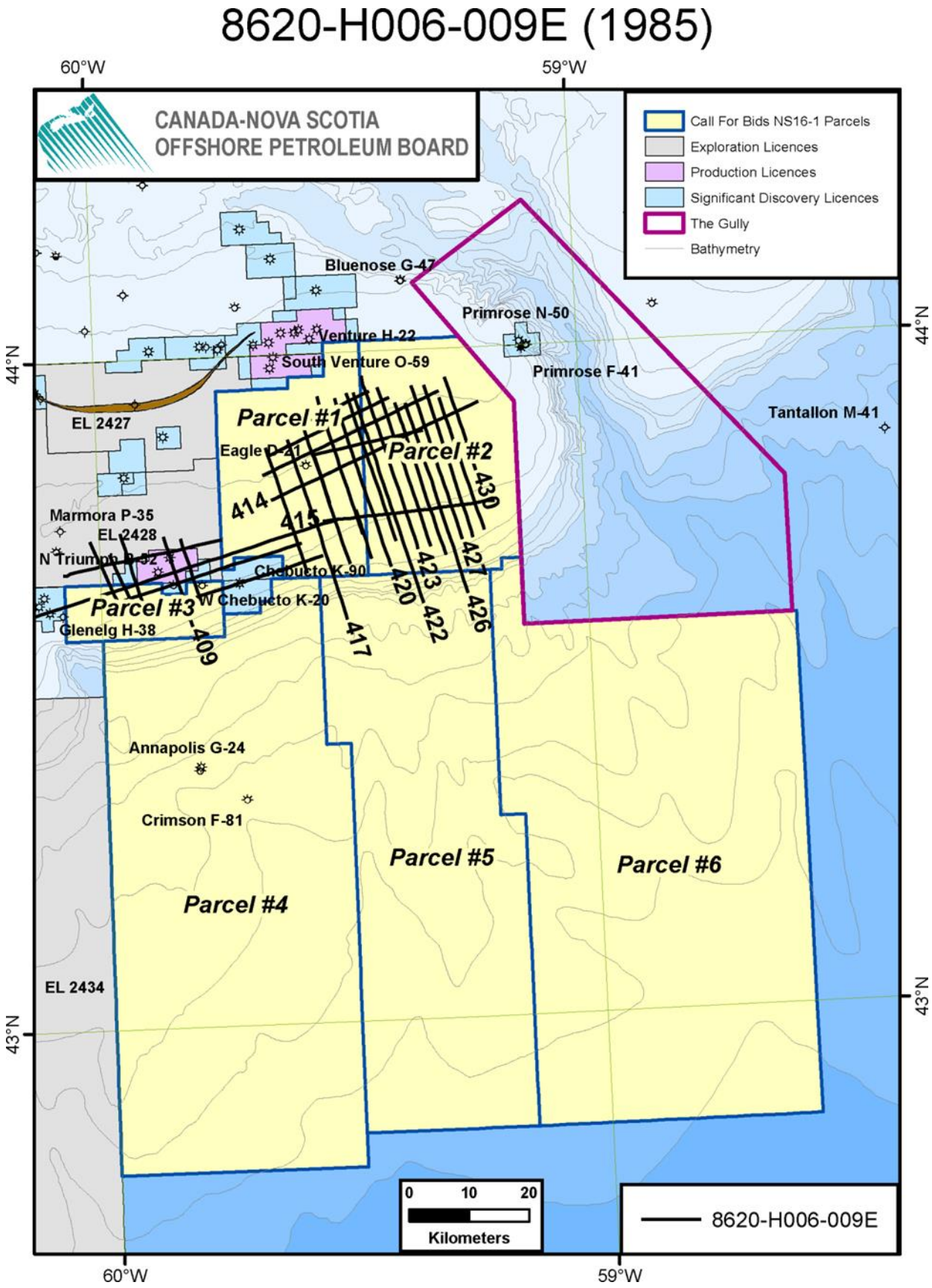


Figure 15: Location Map for 8624-W013-002P

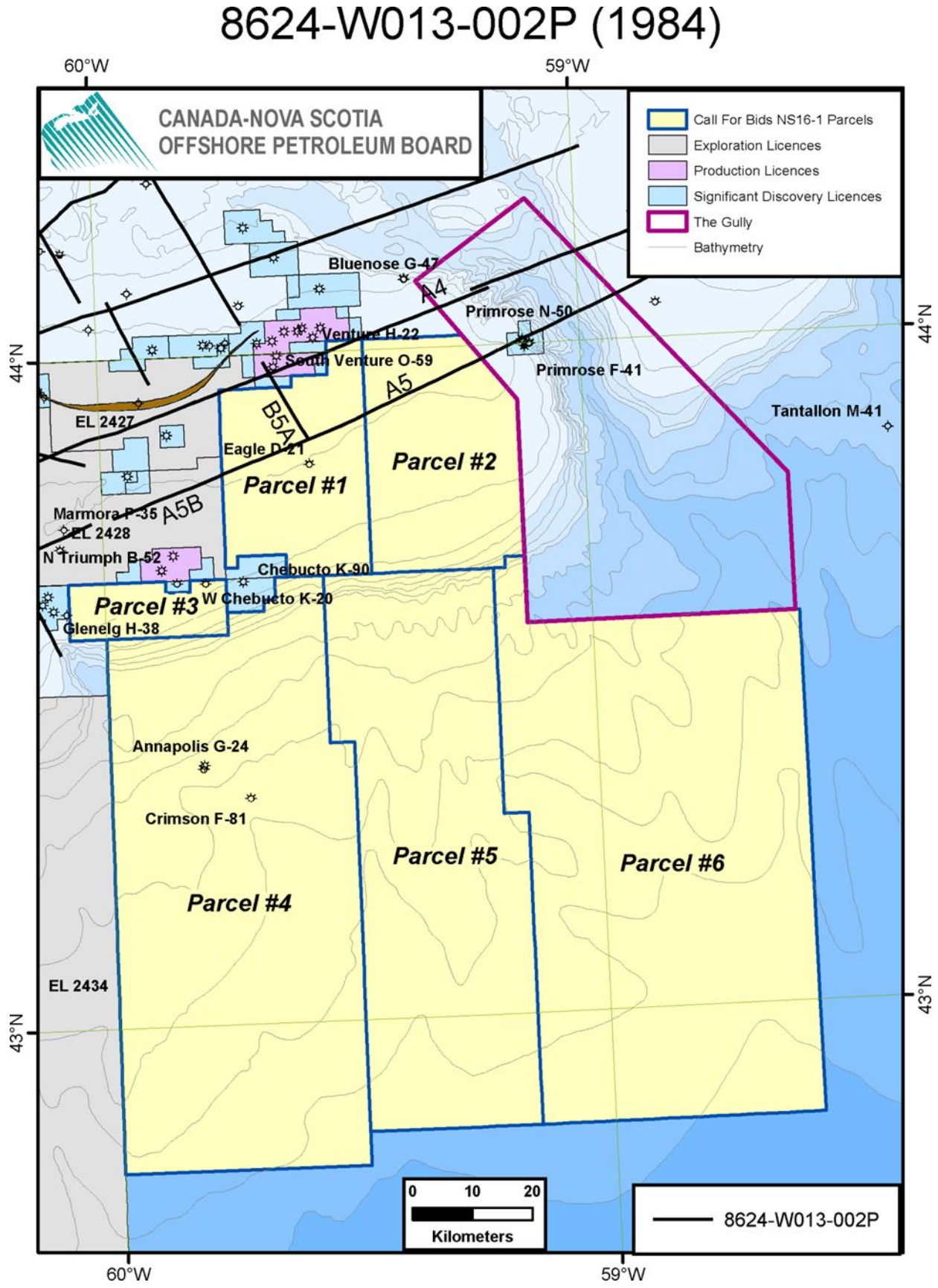


Figure 16: Location Map for 8624-S006-043E

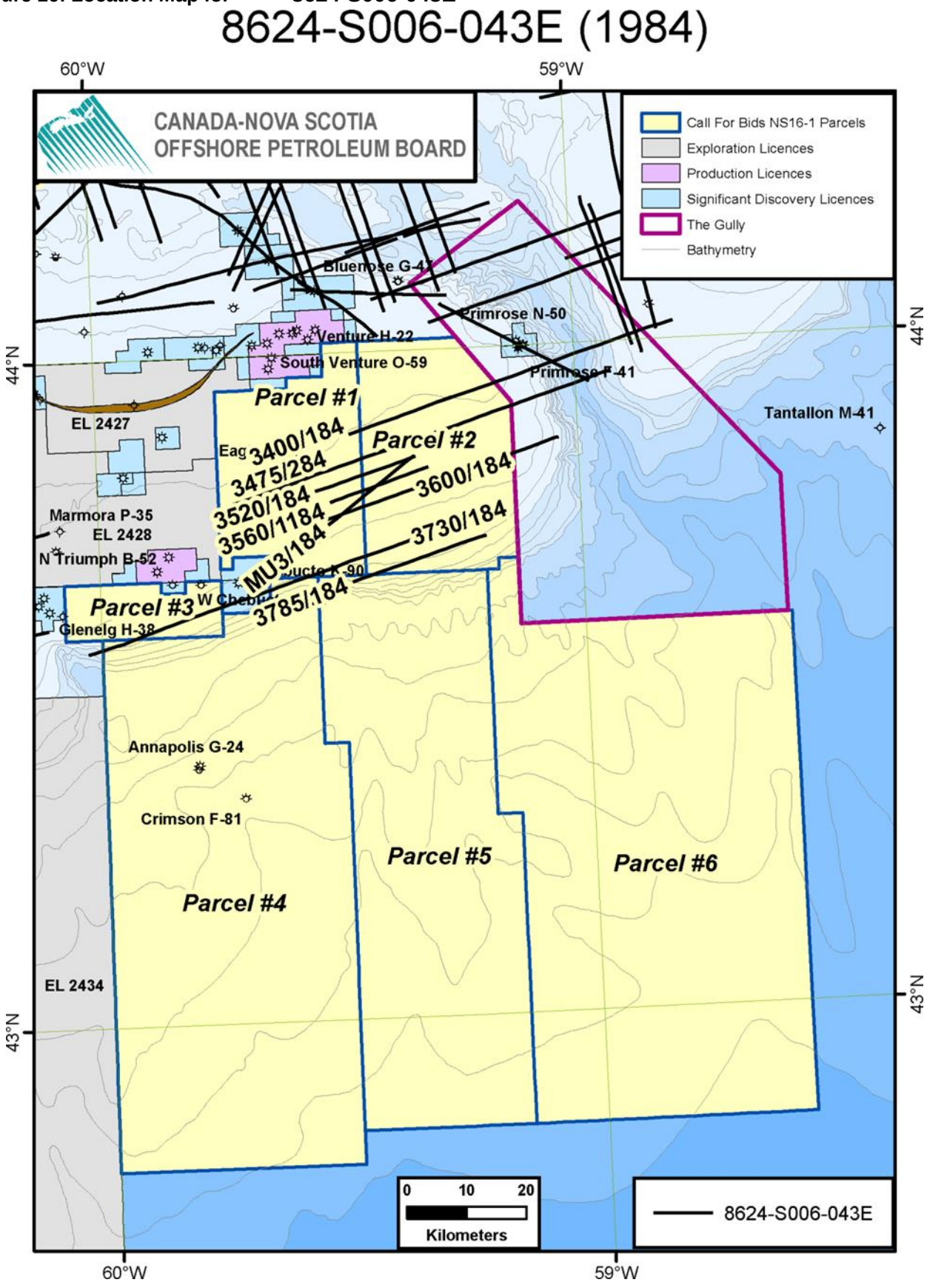


Figure 17: Location Map for 8624-M003-049E

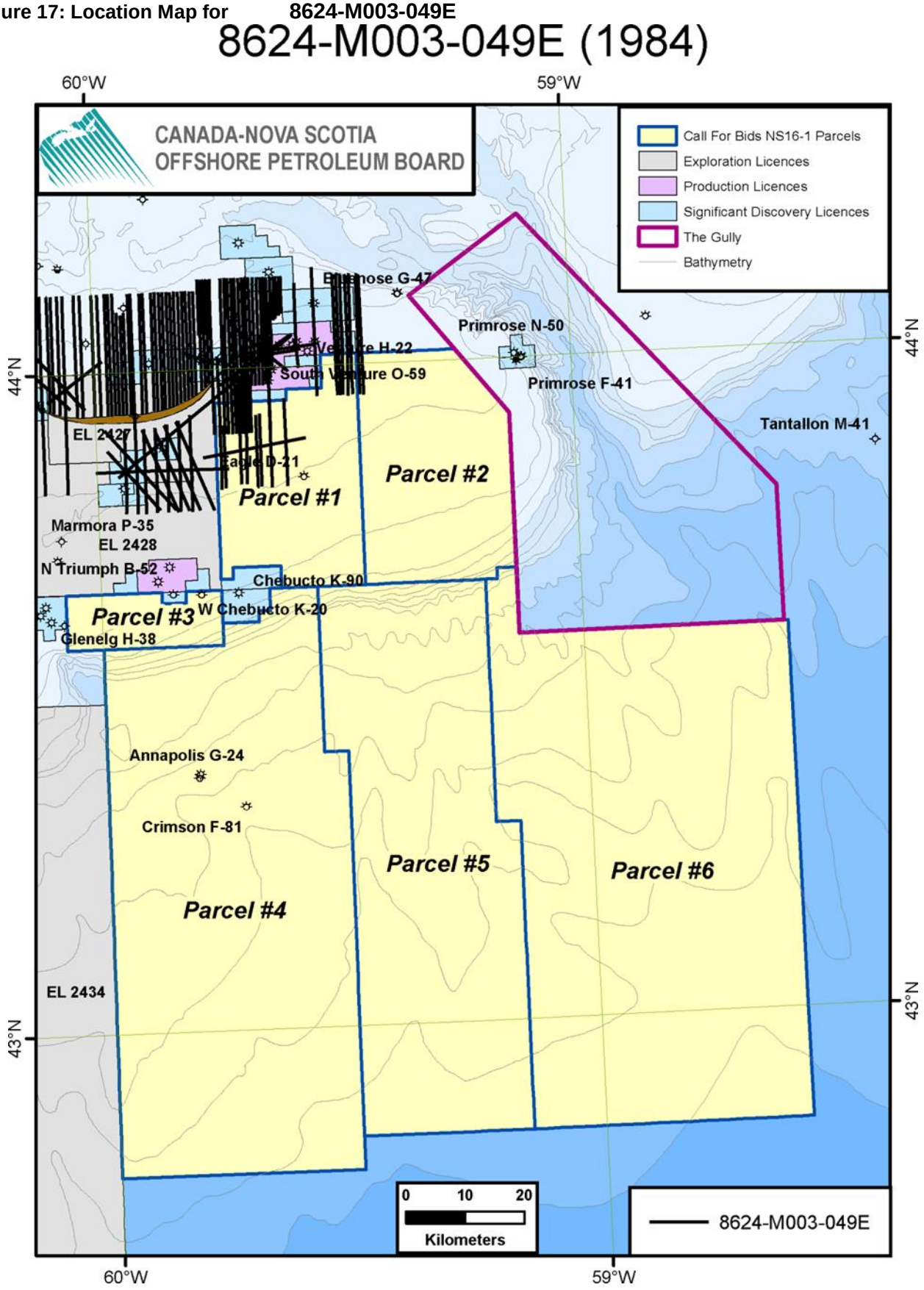


Figure 18: Location Map for 8620-H006-008E

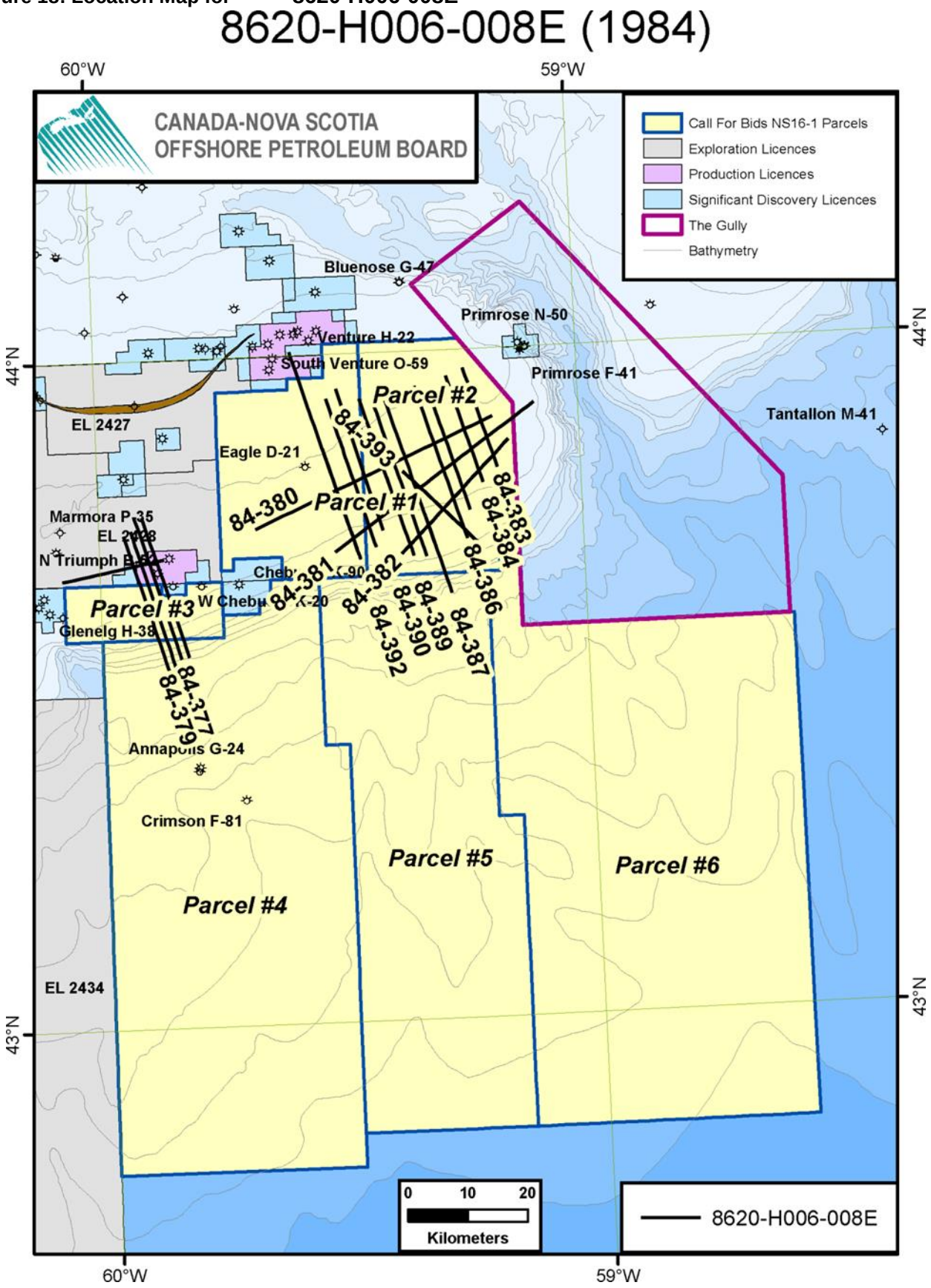


Figure 19: Location Map for 8624-W013-001P

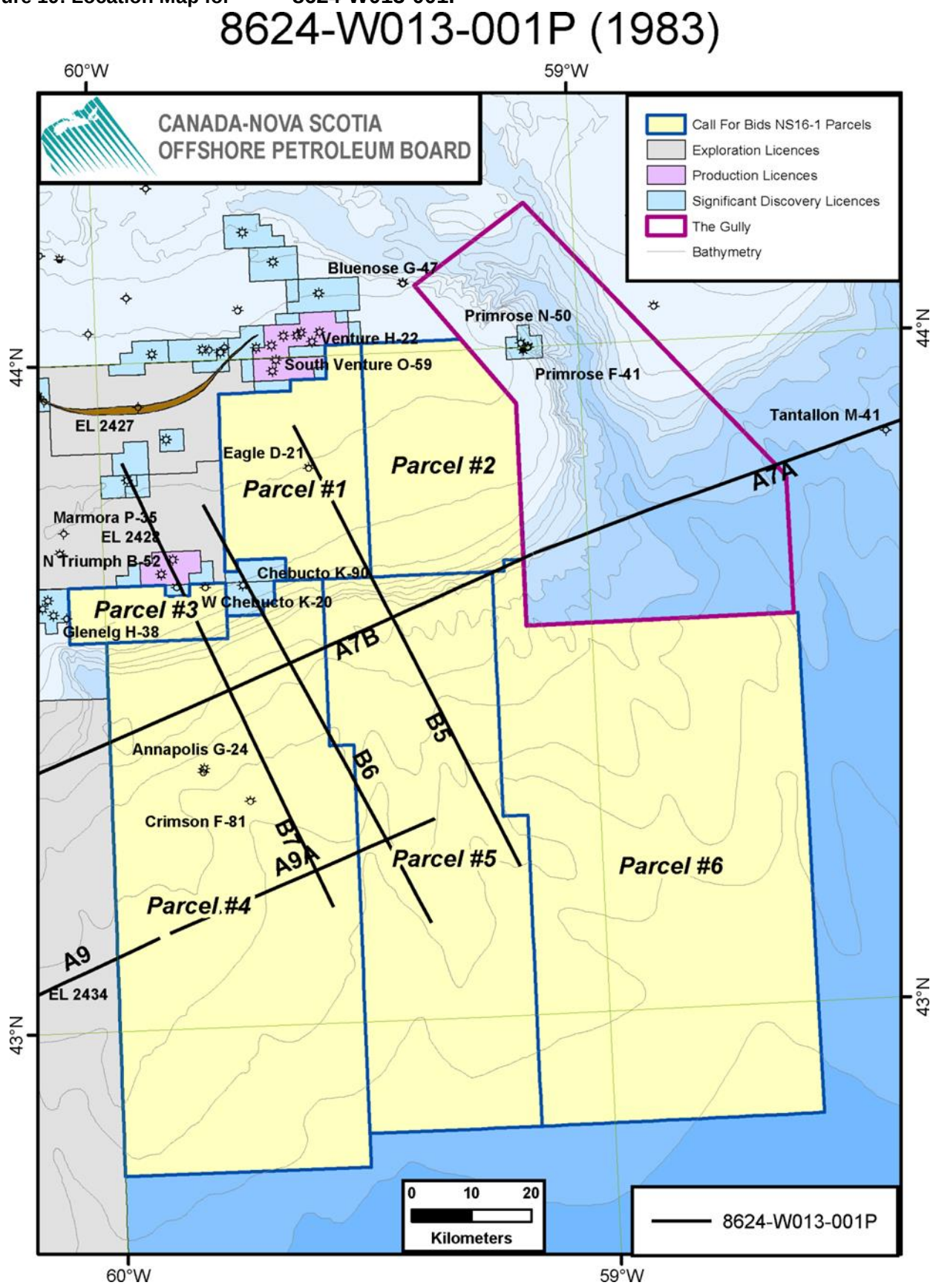


Figure 20: Location Map for 8620-S014-006E

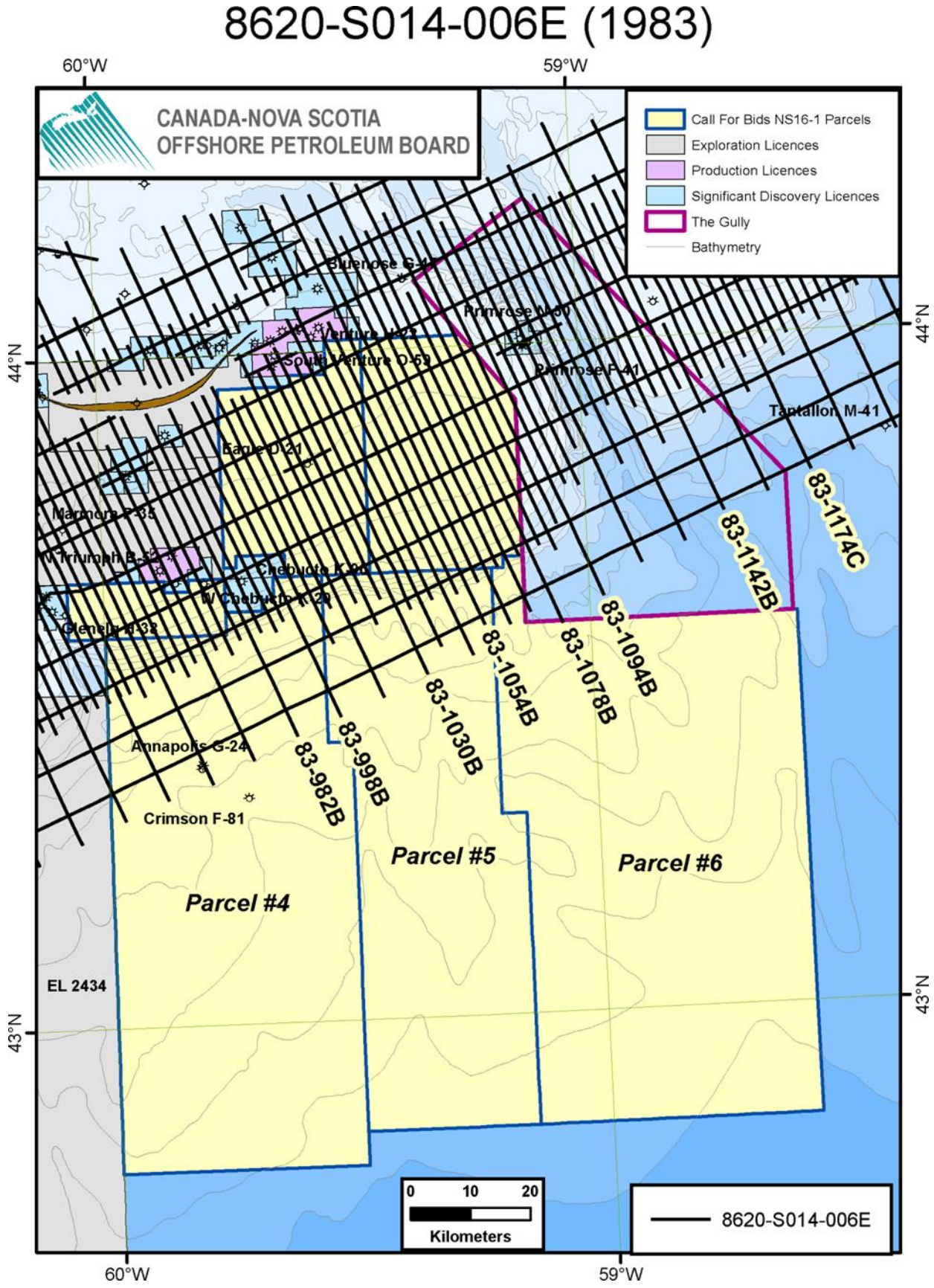


Figure 21: Location Map for 8624-S006-037E

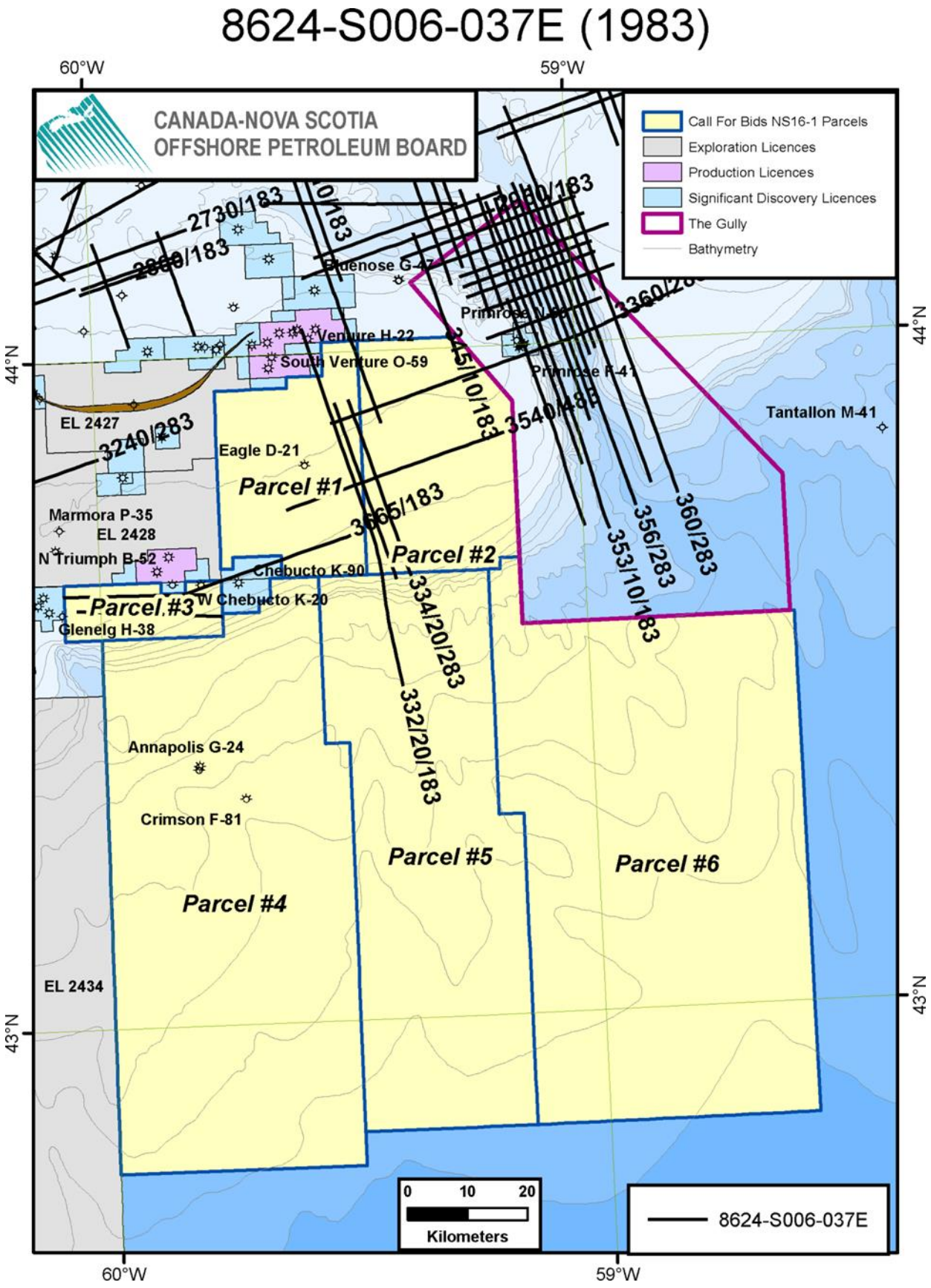


Figure 22: Location Map for 8624-S006-036E

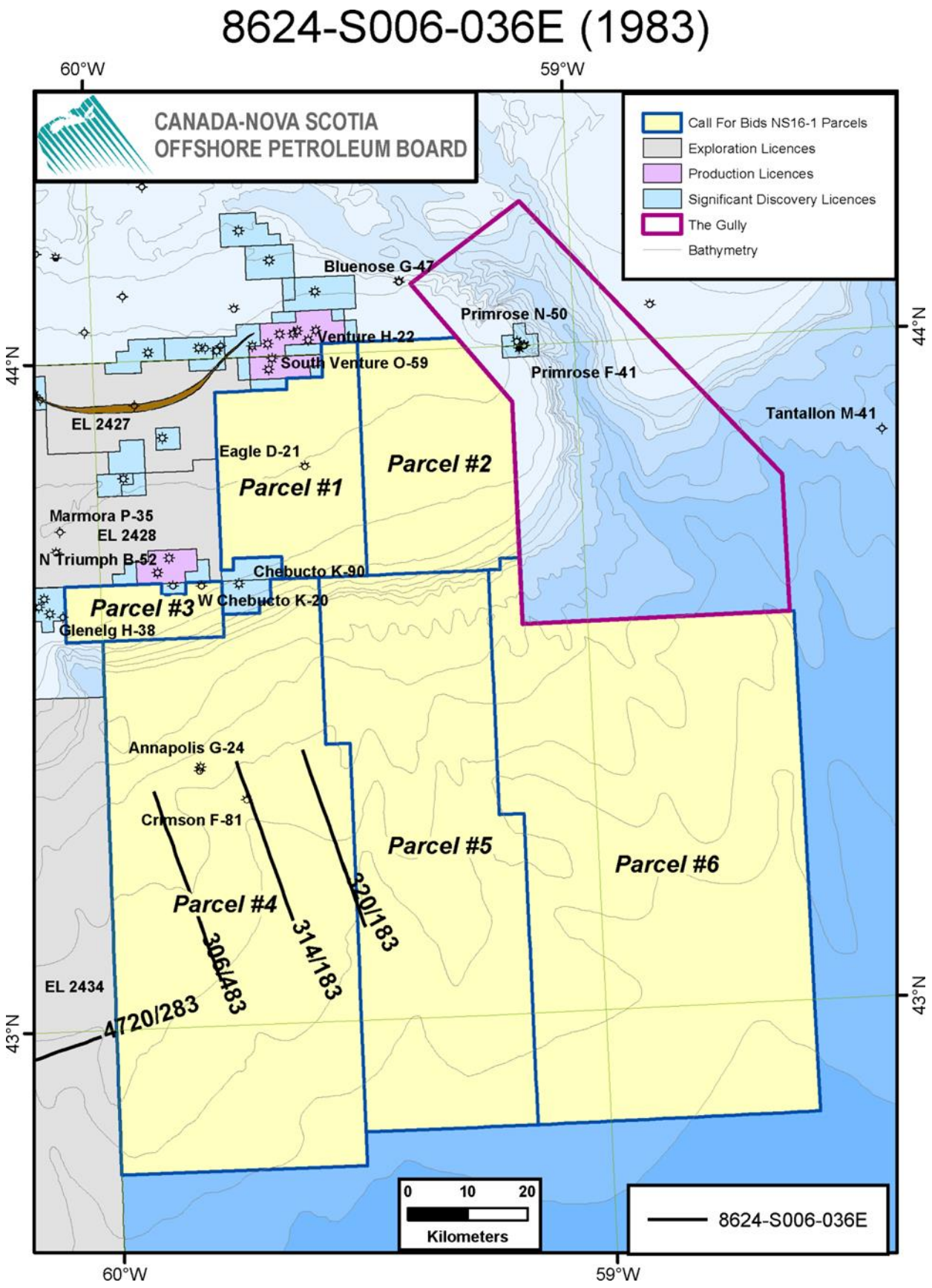


Figure 23: Location Map for 8624-S006-035E

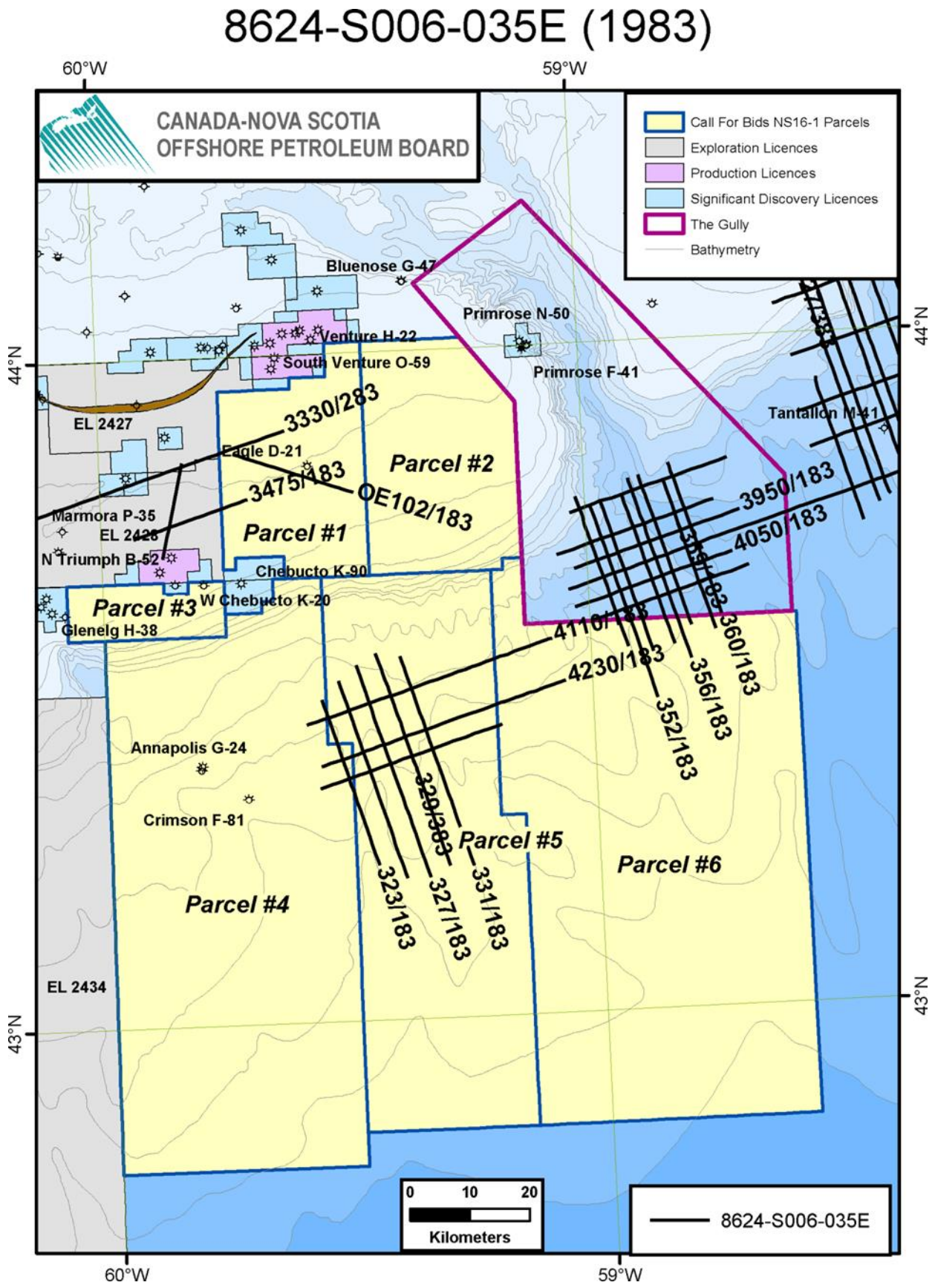


Figure 24: Location Map for 8620-N005-002E

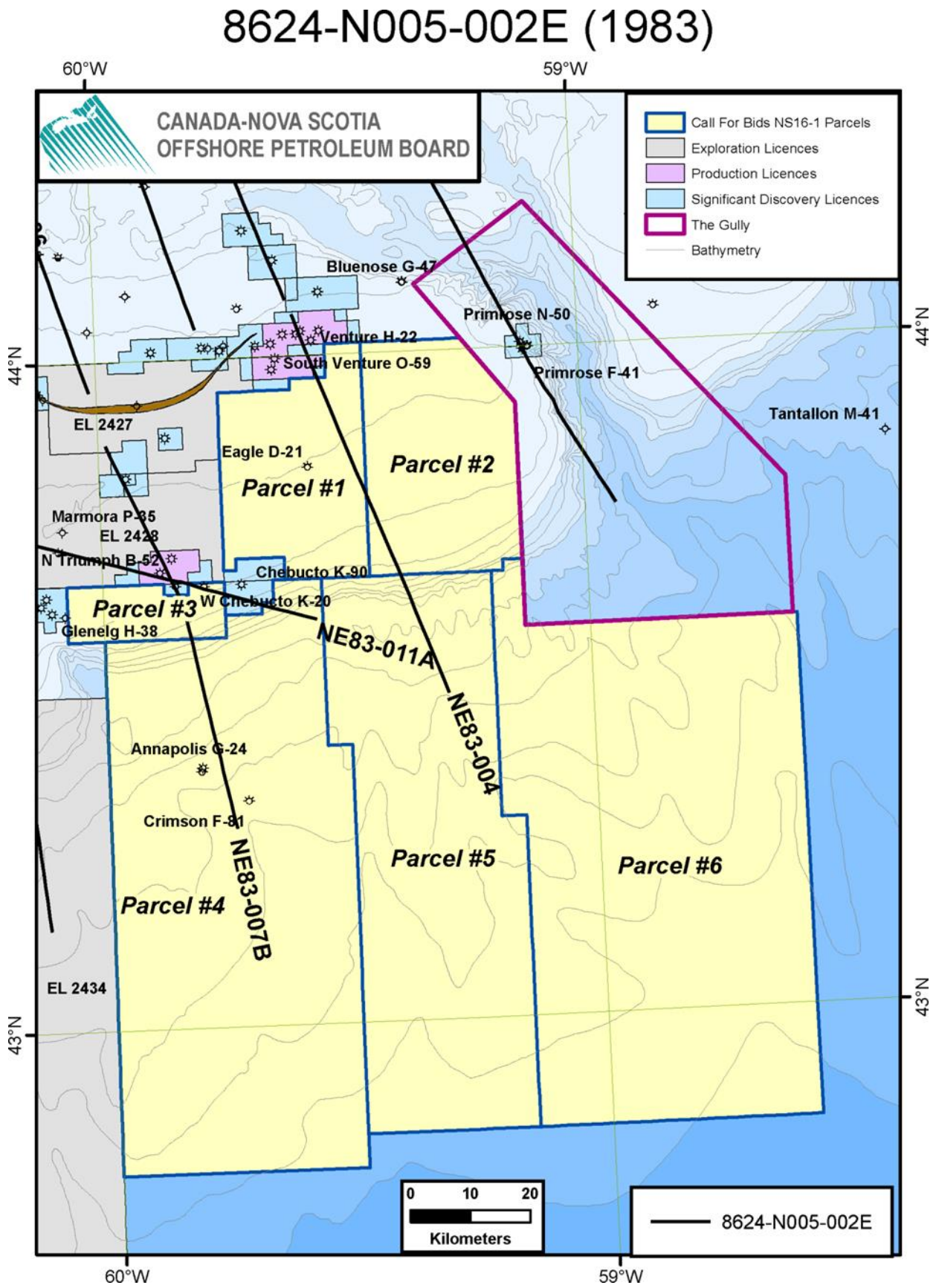


Figure 25: Location Map for 8624-M003-047E

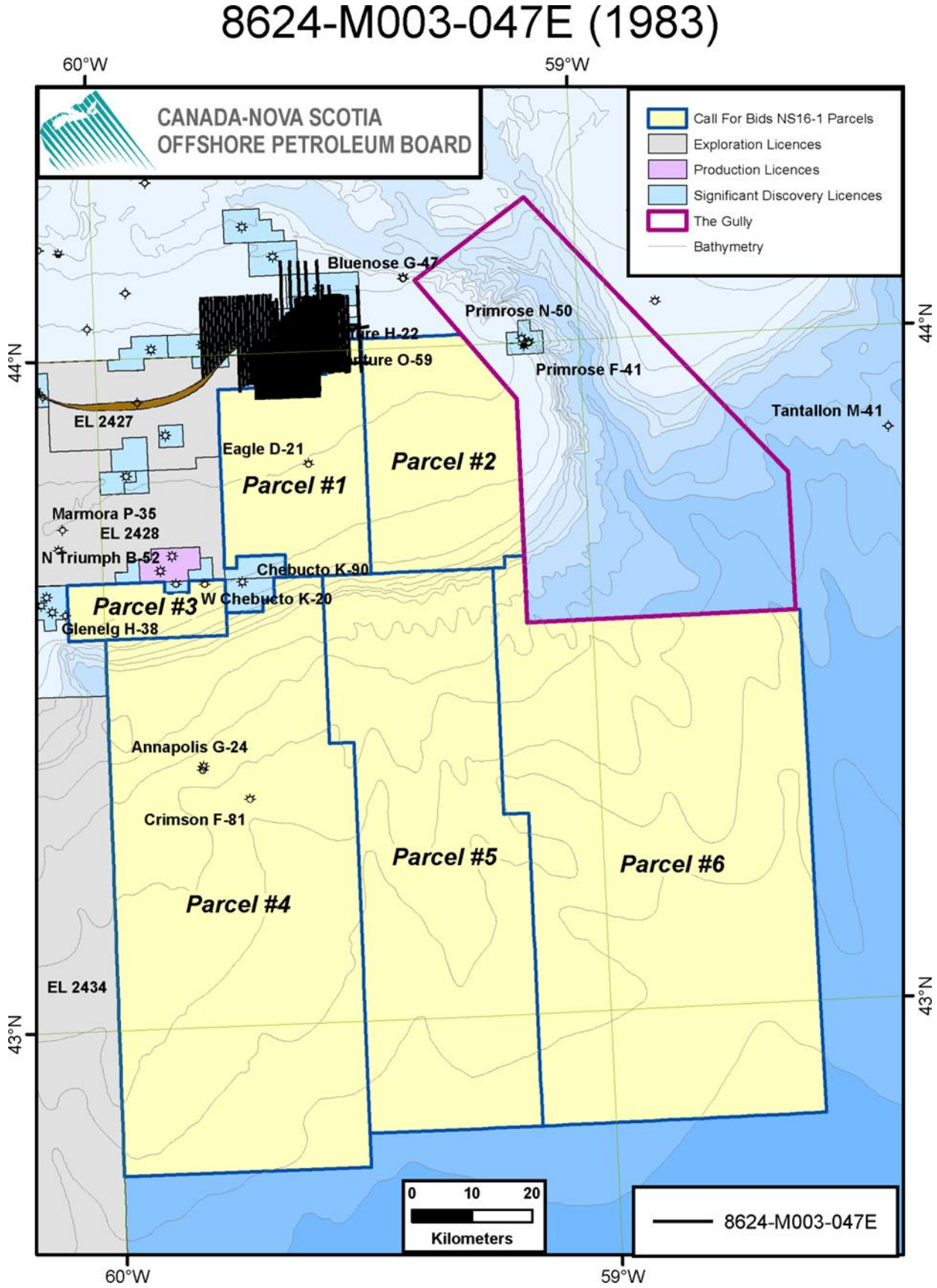


Figure 26: Location Map for 8620-J008-001E

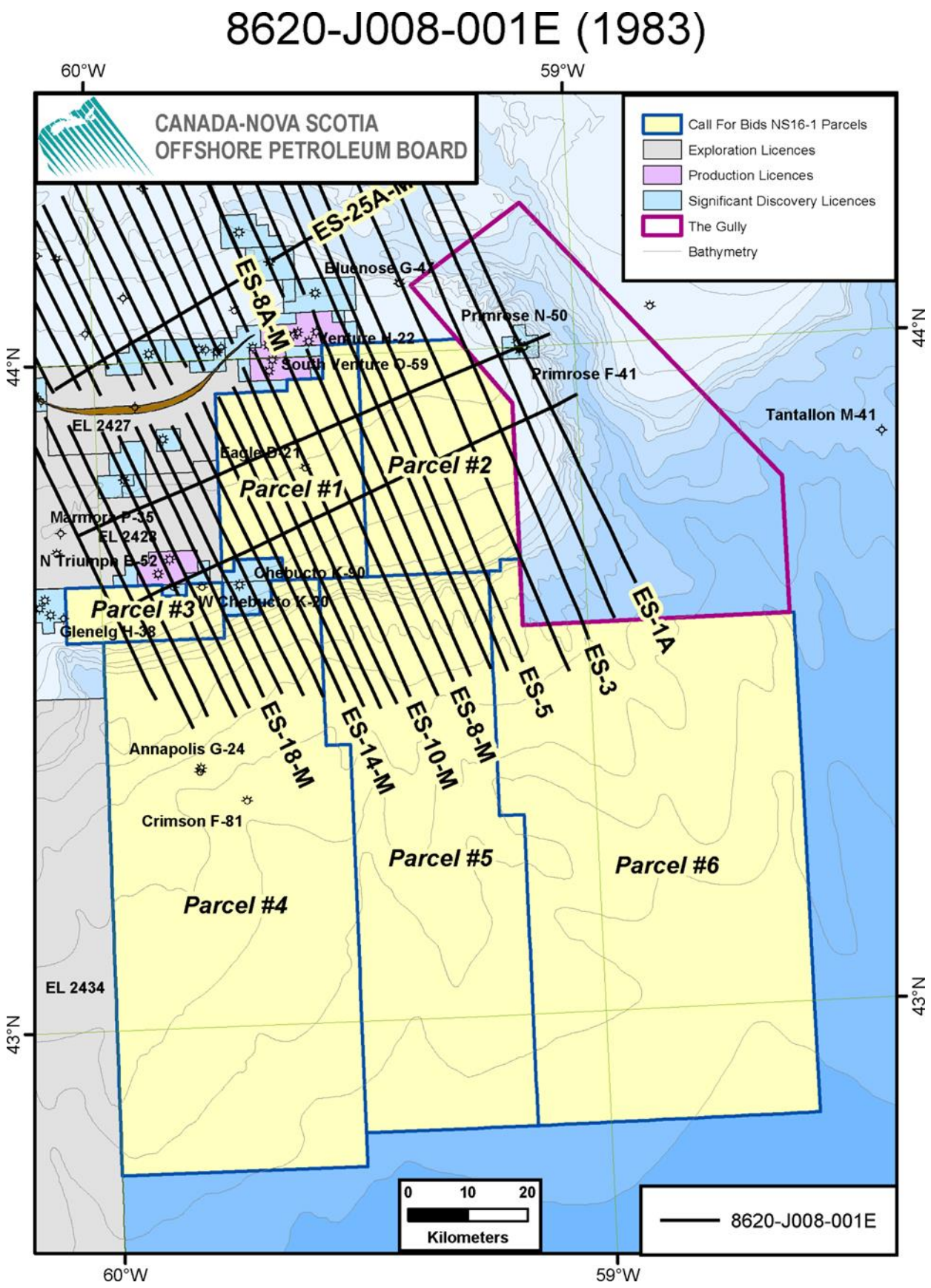


Figure 27: Location Map for 8624-H006-008E

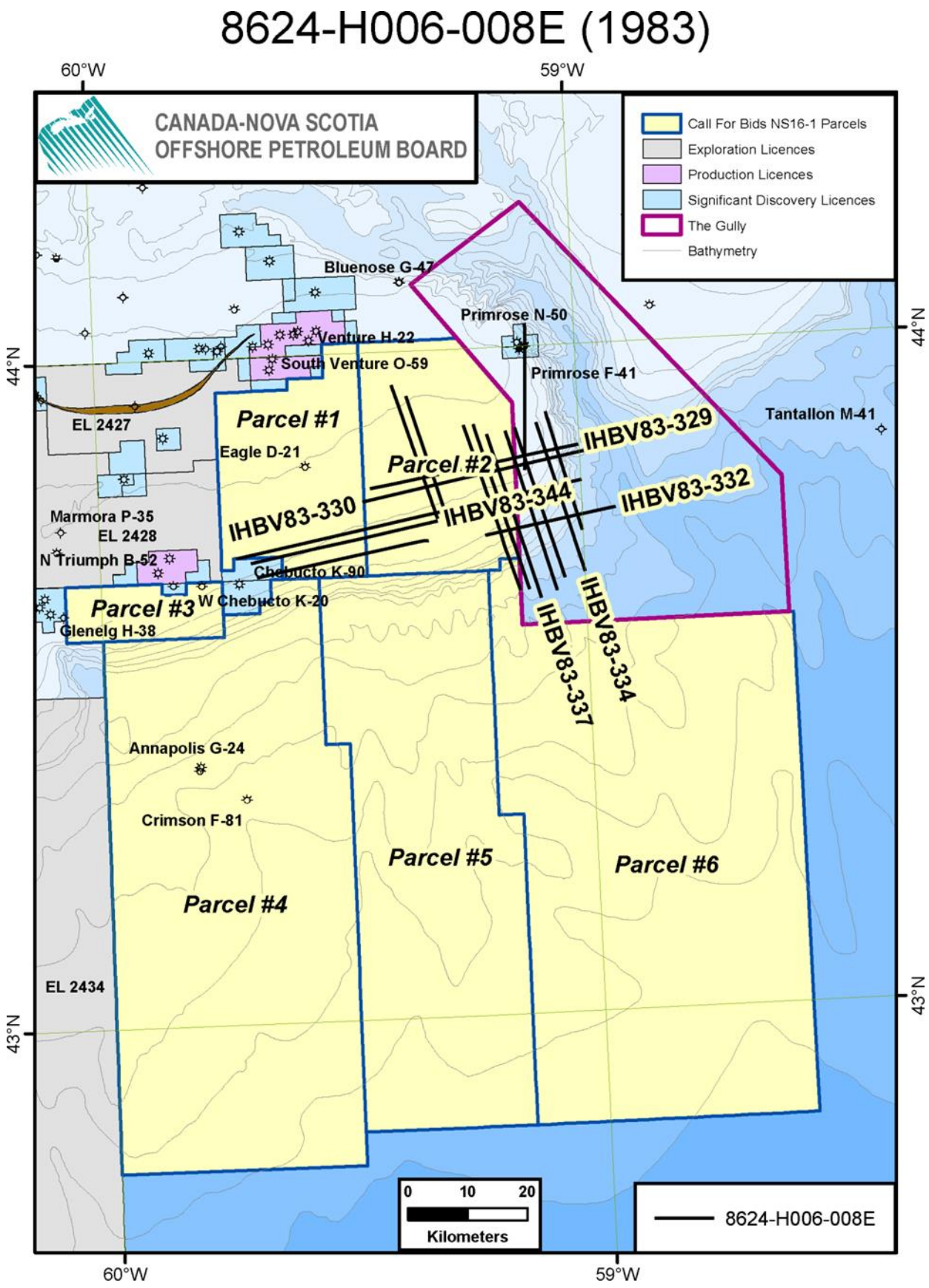


Figure 28: Location Map for 8620-H006-007E

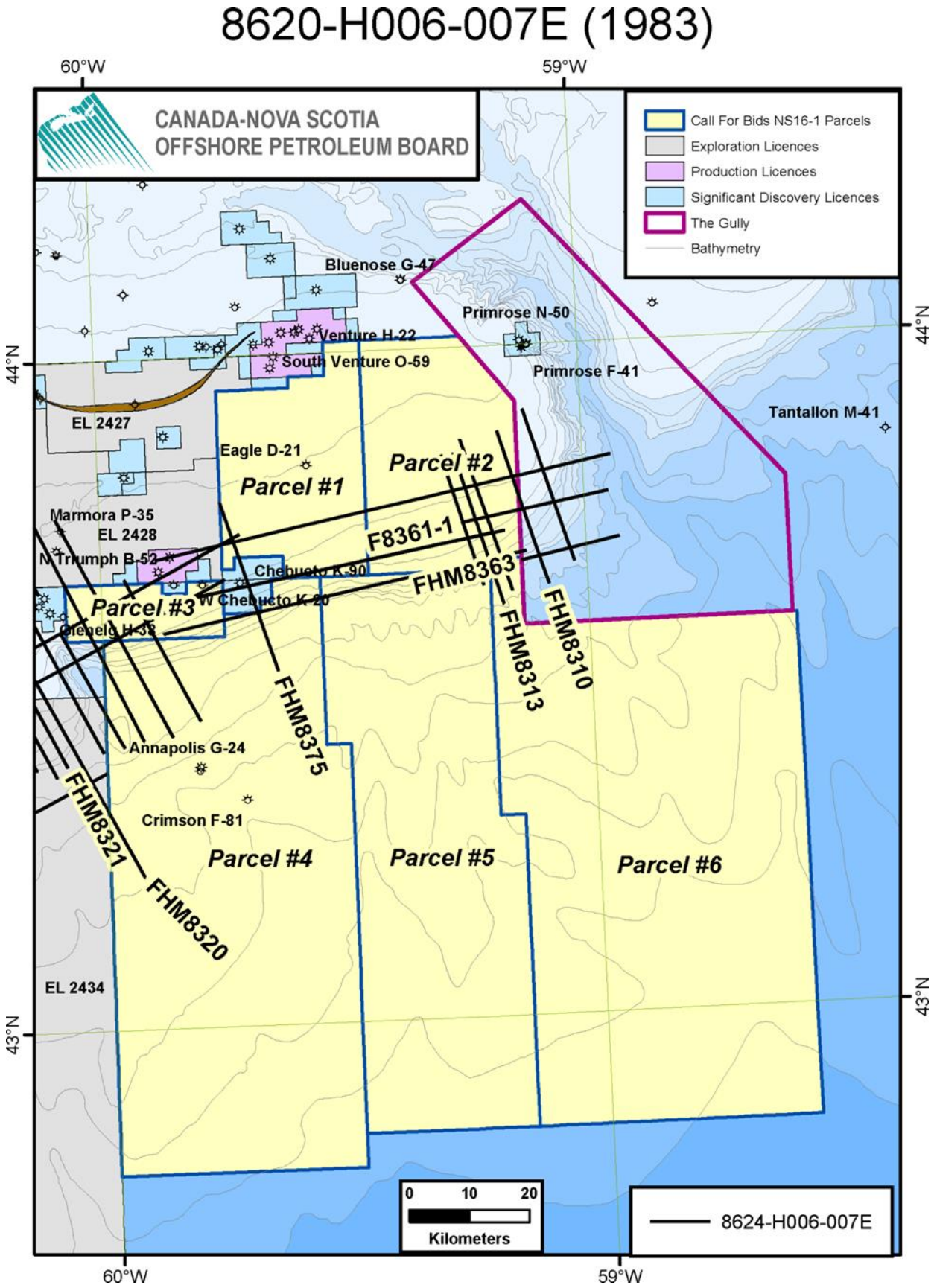


Figure 29: Location Map for 8624-H006-004E

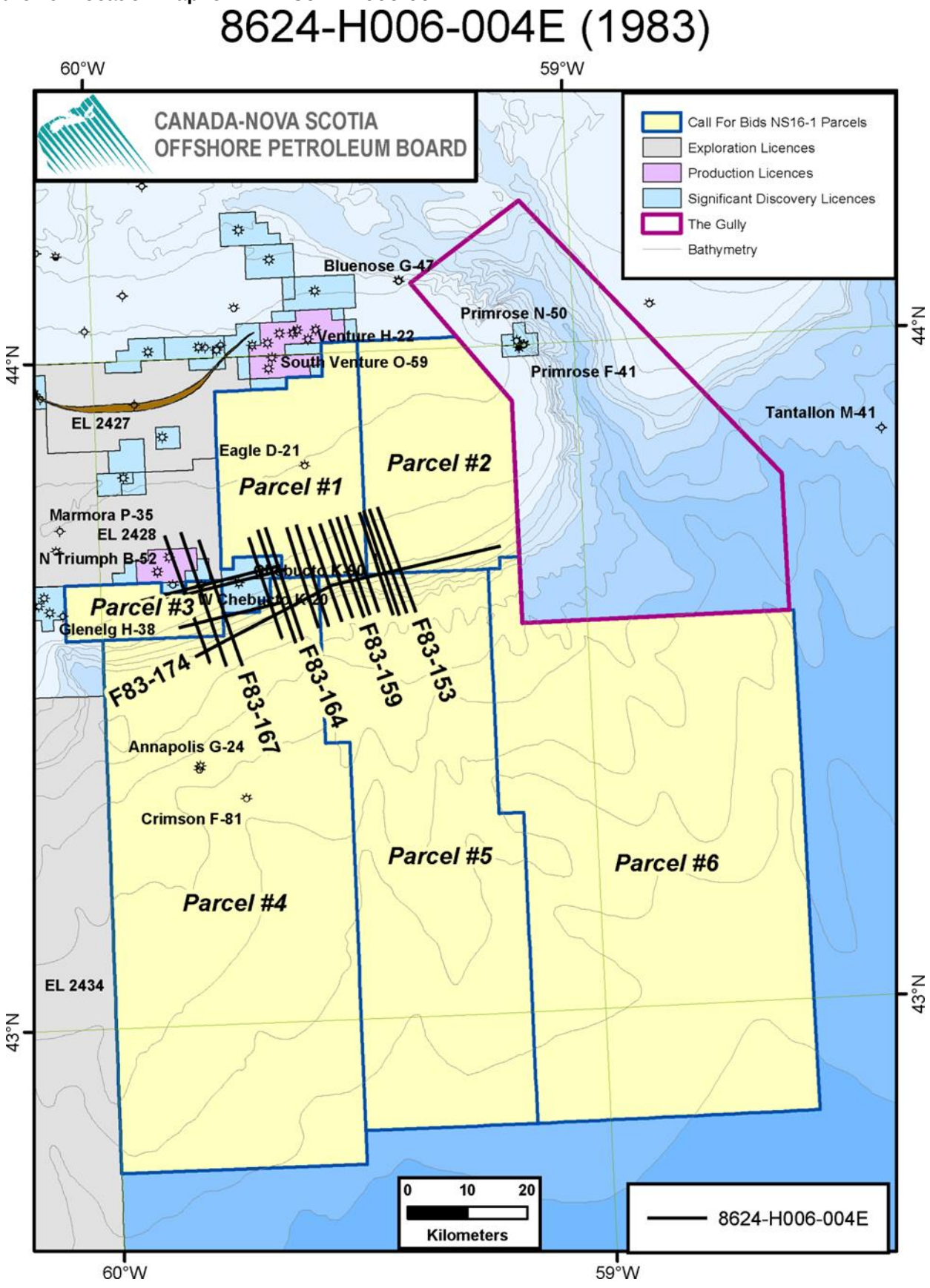


Figure 30: Location Map for 8624-B011-004E

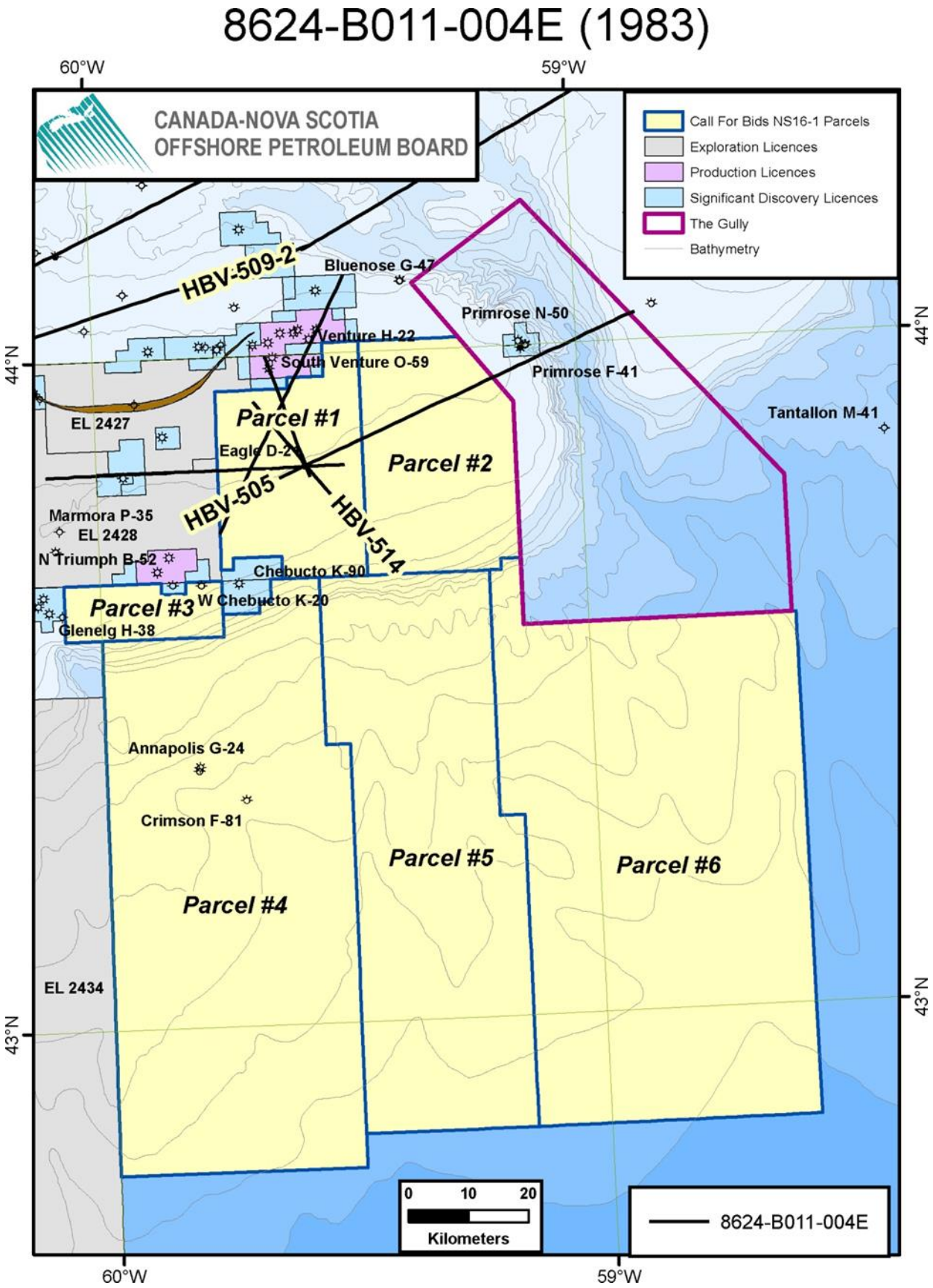


Figure 31: Location Map for 8624-S006-033E

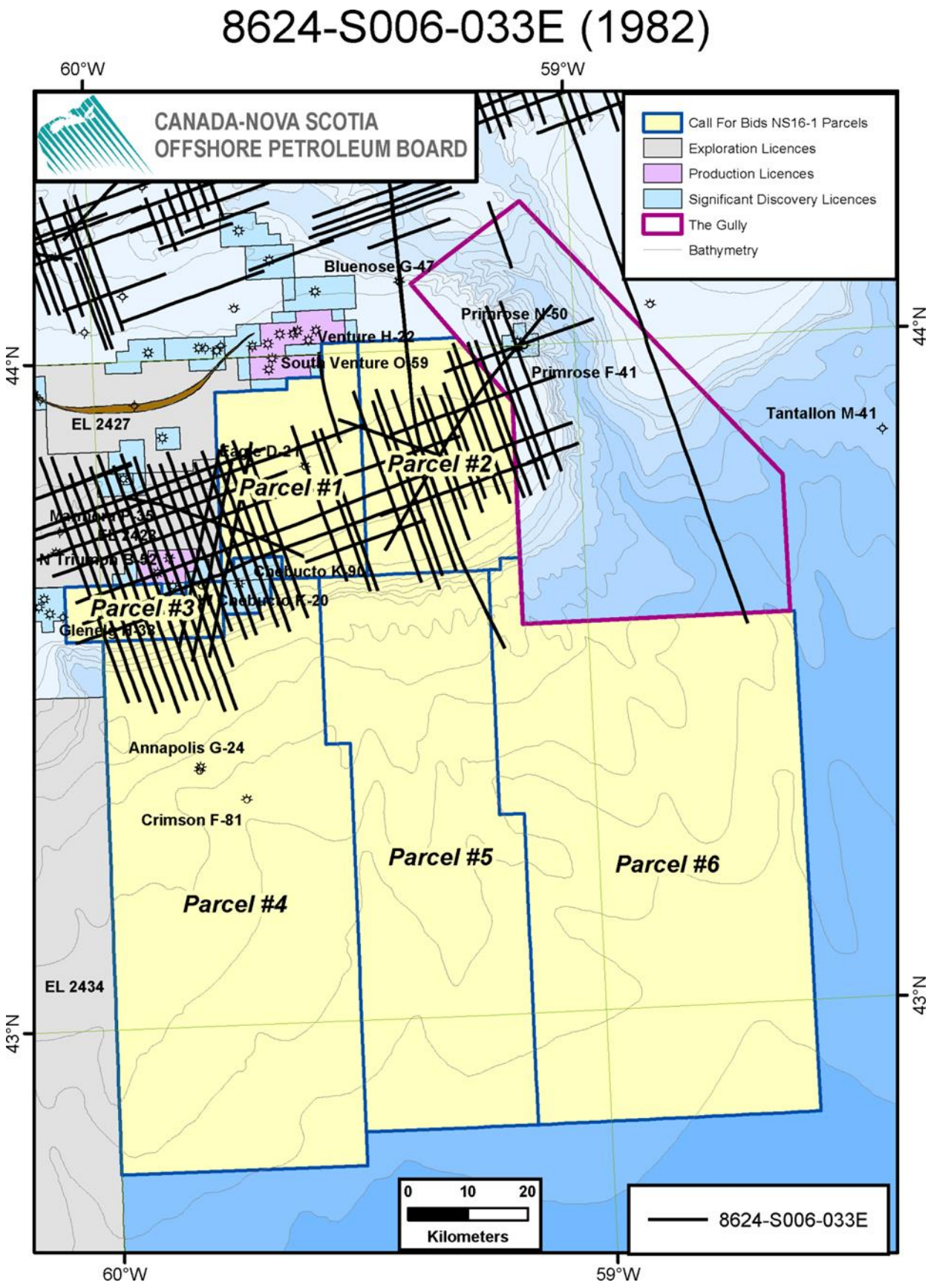


Figure 32: Location Map for 8624-S006--032E

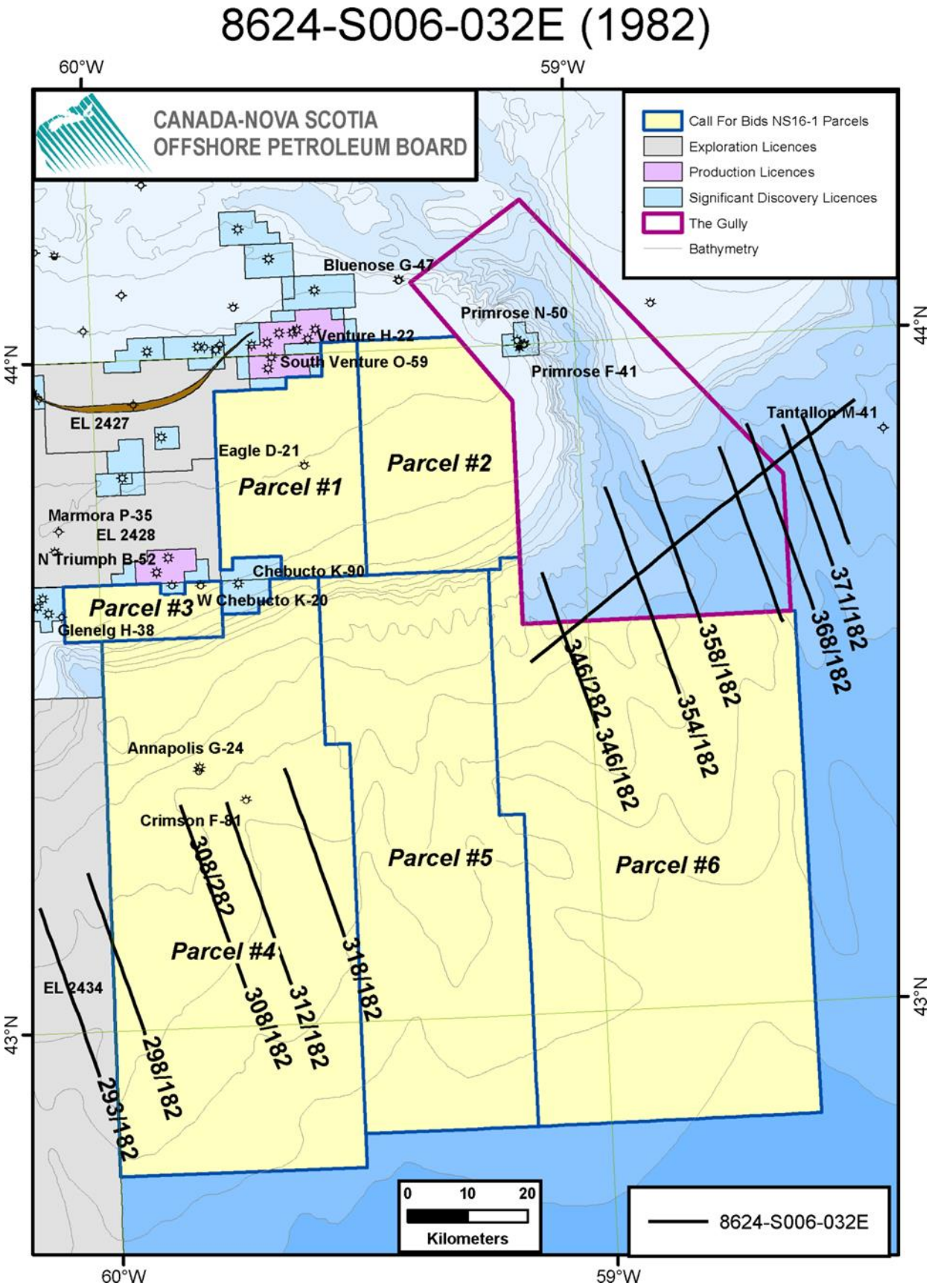


Figure 33: Location Map for 8624-M003-044E

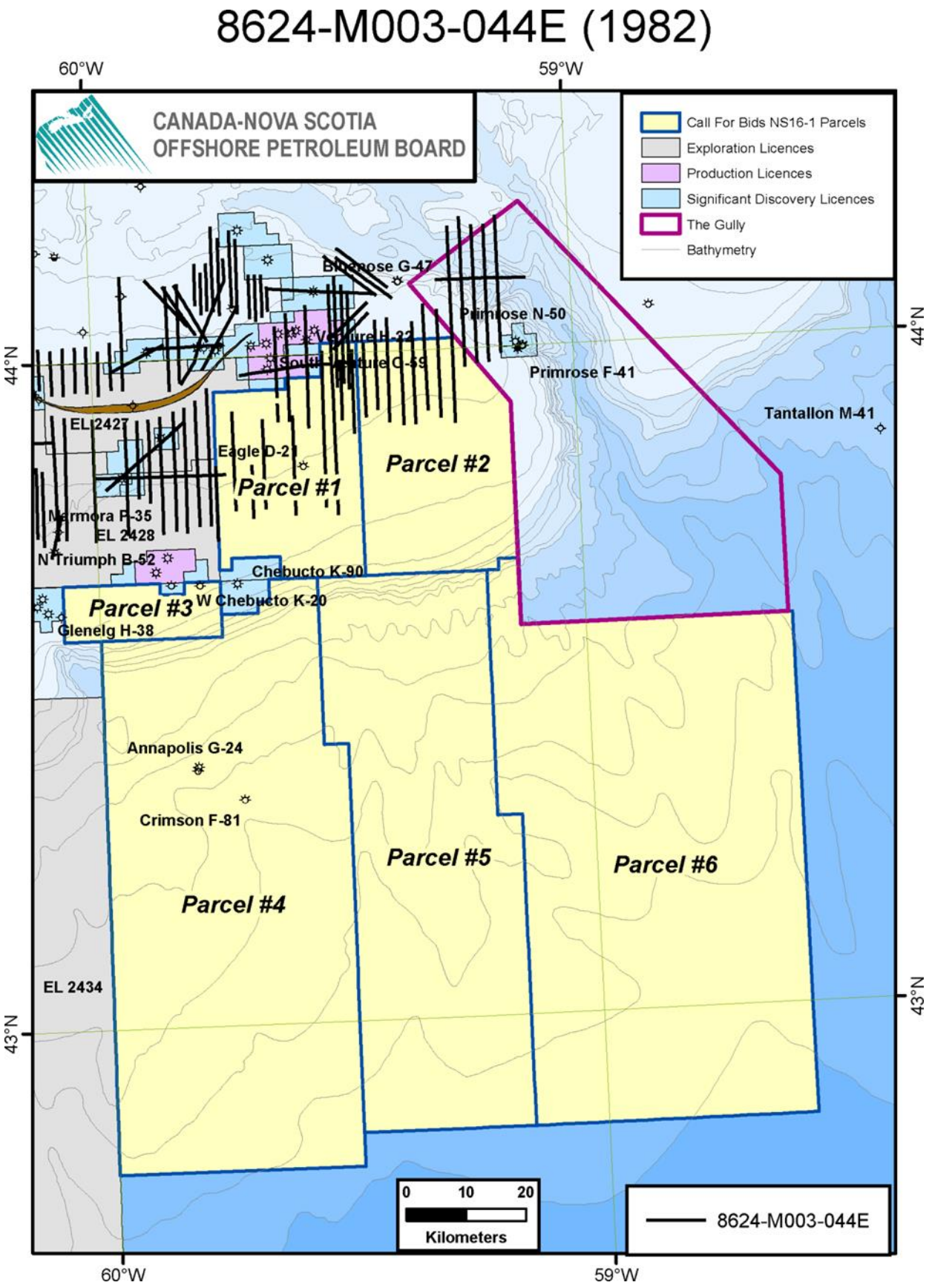


Figure 34: Location Map for 8620-H006-002E

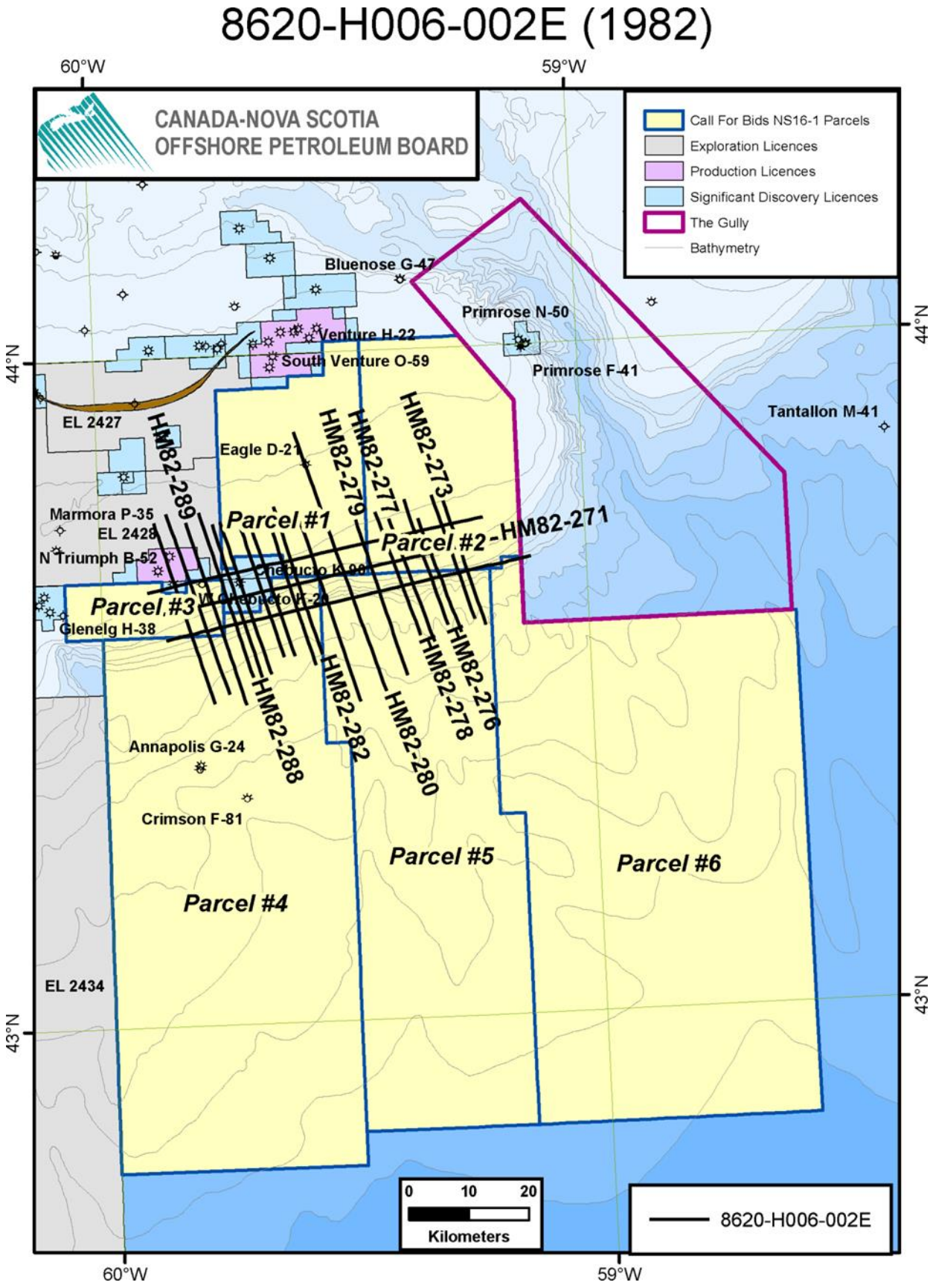


Figure 35: Location Map for 8624-S006-028E, 031E

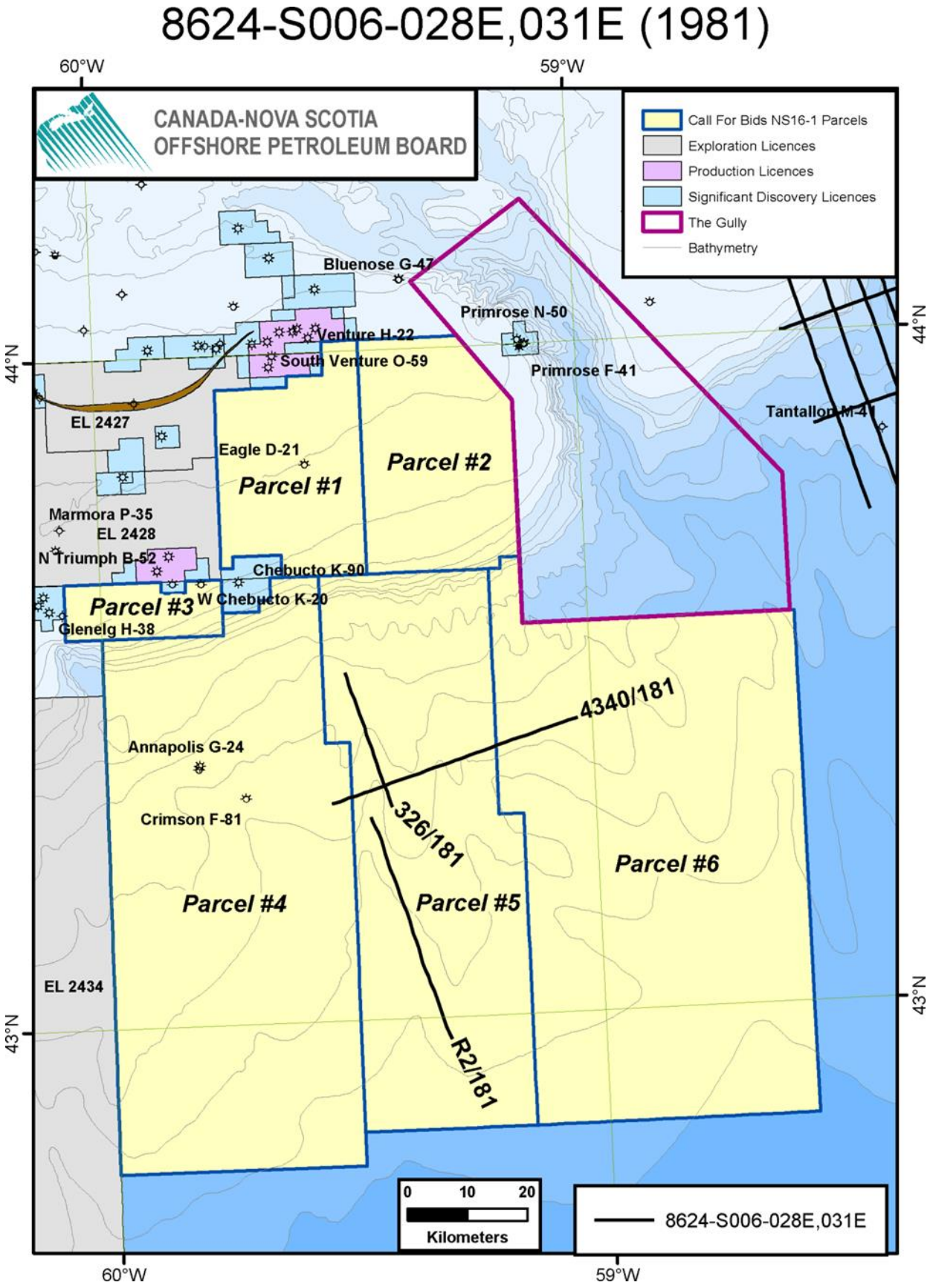


Figure 36: Location Map for 8624-S006-027E

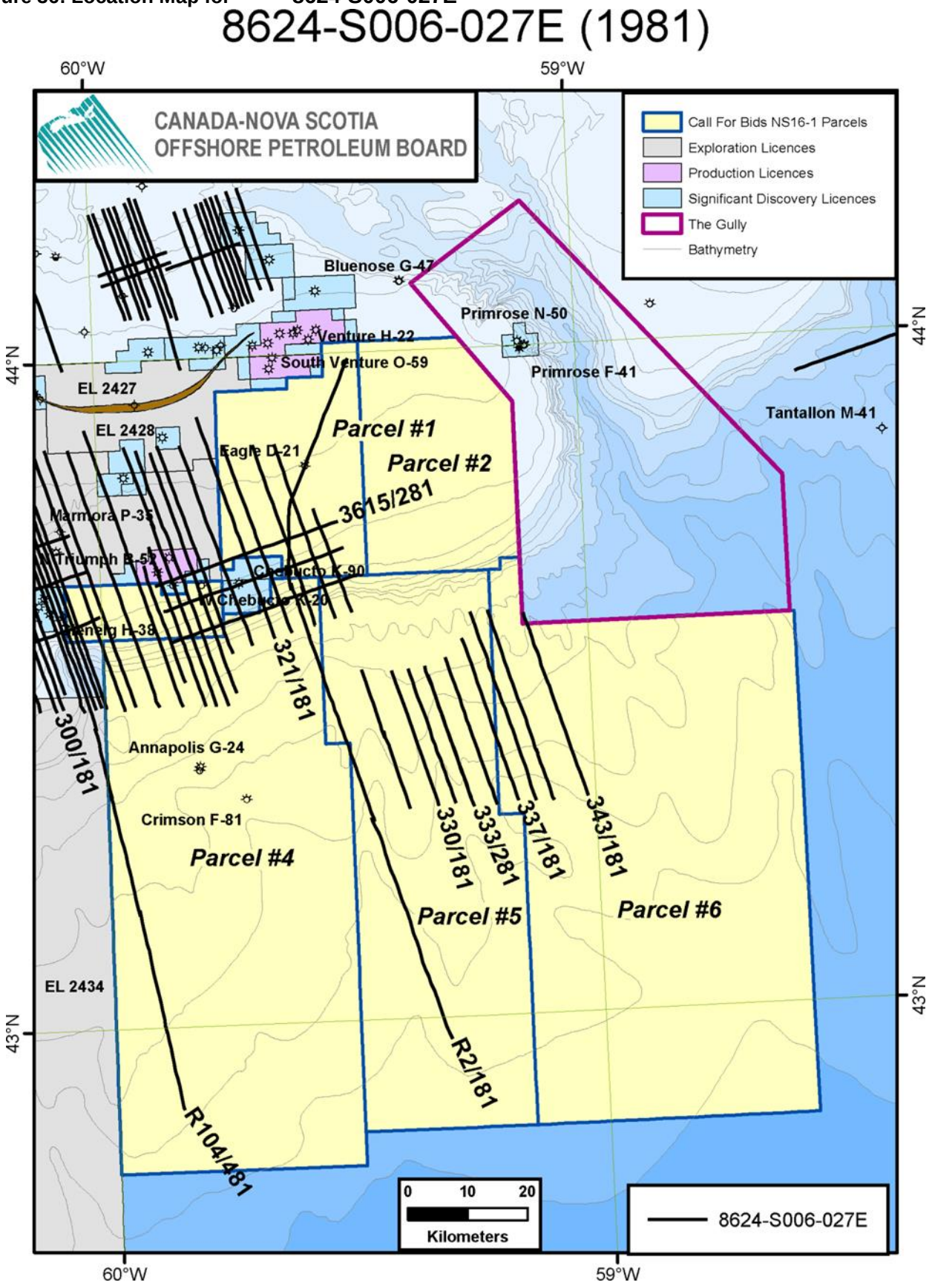


Figure 37: Location Map for 8624-O011-001E

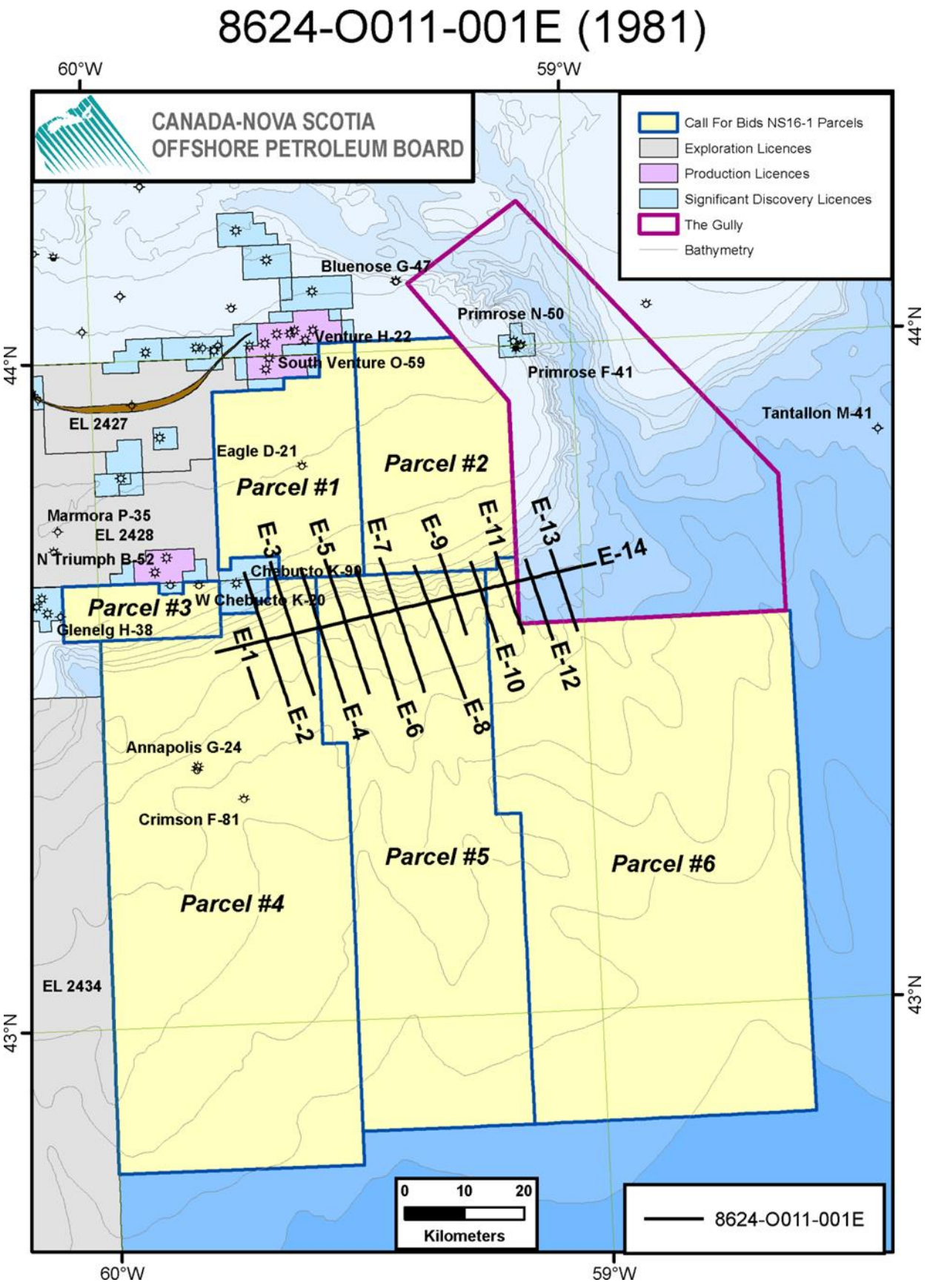


Figure 38: Location Map for 8624-S006-023E

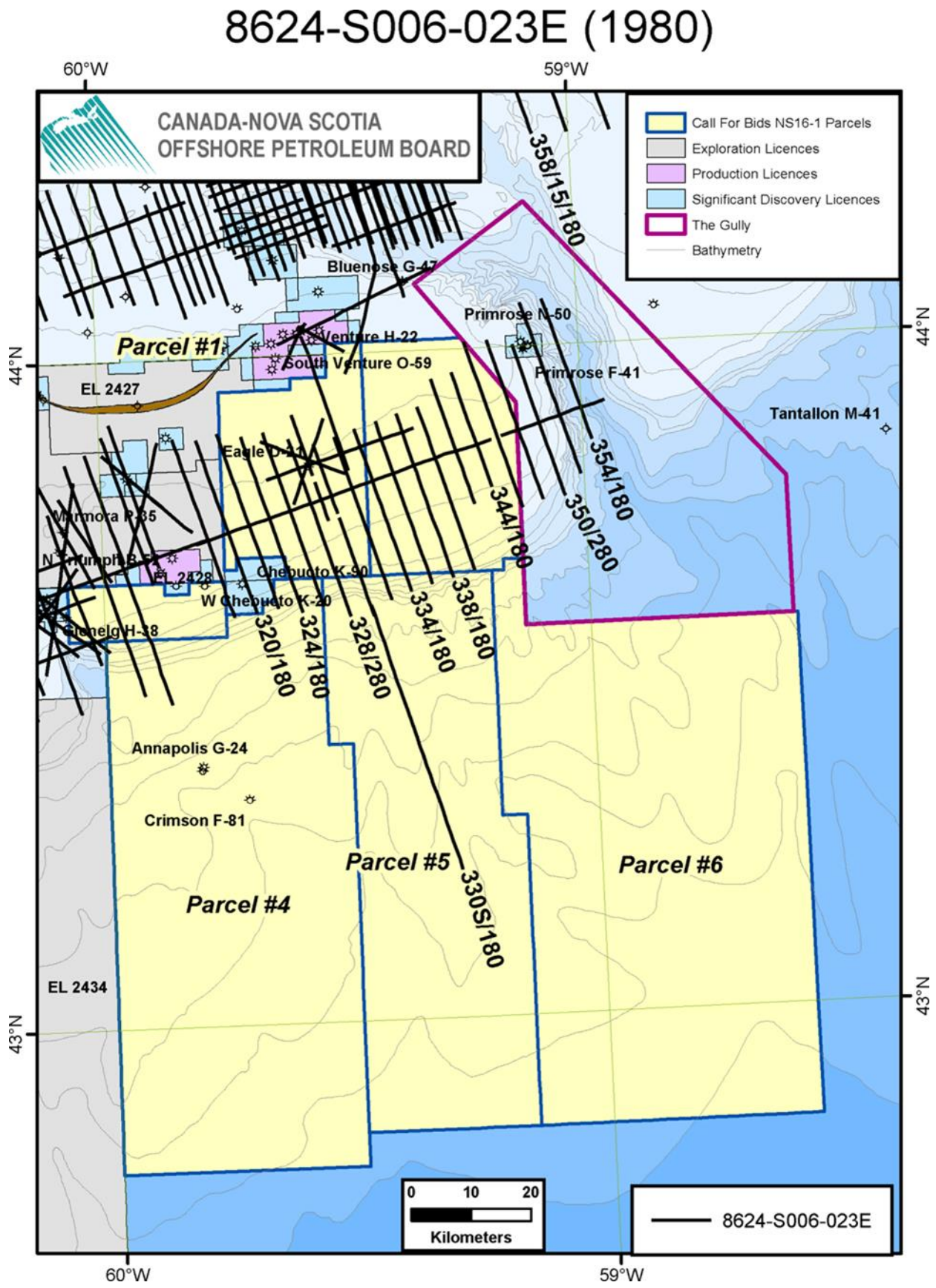
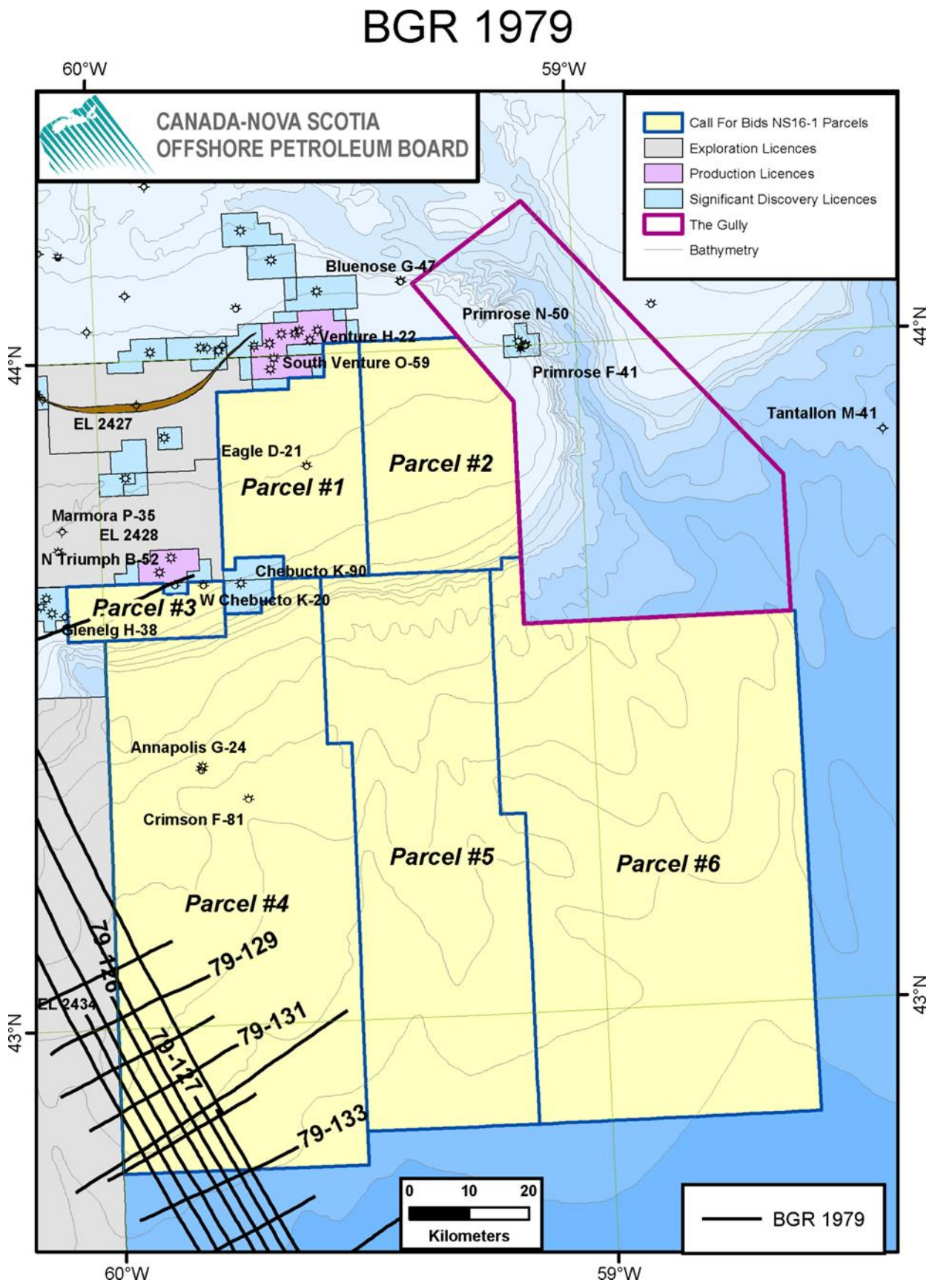


Figure 39: Location Map for BGR 1979



6. Seismic Data Information Contacts

A) Natural Resources Canada

Visit natural Resources Canada website for data request:
Website: http://gdr.nrcan.gc.ca/seismtlitho/archive/le/index_e.php

B) LaMont-Doherty Earth Observatory
Columbia University/ Earth Institute

Website http://www.marine-geo.org/index.php

C) BGR (Bundesanstalt fur Geowissenschaften und Rohstoffe)
(Federal Institute for Geosciences and Natural Resources)

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NOTES: