

October 15, 2012

East Coast Energy Inc.  
PO Box 940  
Stellarton, NS  
B0K 1S0

5200

Attn:

Dear

**RE: Approval to construct a Petroleum Exploration Well(s), Property Identification No. 00874651, McLellan's Brook, Pictou County, Nova Scotia.**

Attached is a copy of your Approval to construct two petroleum exploration wells (ECE-12-P1 and ECE-12-P2), for the purpose of coal bed methane exploration, at or near McLellan's Brook, Pictou County, Nova Scotia.

Ensure this Approval, or a copy, is kept on-site at all times during the Project and that all individuals involved in the project are aware of the terms and conditions.

Please note, if you wish to modify, extend or expand the project beyond that which was outlined in the original application and supporting documents, you will be required to obtain an amendment to your Approval before commencing that work.

Pay careful attention to the submission deadlines within your Approval. If you are unable to meet these deadlines, notify the Department in advance by requesting an amendment to your Approval.

Should you have any questions or concerns regarding this information, please do not hesitate to contact me at 902-396-4194.

Regards,



Kathleen Johnson, P.Eng.  
Regional Engineer

cc: Penny McLeod, District Manager  
R Jay Brenton, Regional Director  
Charlene Beanish, Inspector Specialist

  
**NOVA SCOTIA**  
Environment

Official Receipt No. **PIC 2371**

Pictou, N.S. August 15 2012

RECEIVED FROM East Coast Energy Inc.

ADDRESS 276 Ford St, Stellarton, N.S. B0K 1S0

THE SUM OF Three thousand forty four 19 DOLLARS (\$3,044.<sup>19</sup>)

FOR Industrial Application Fee  
in cheque # 000402

Heather Doubleday  
FOR ENVIRONMENT

COPY DISTRIBUTION: White - ORIGINAL Canary - FILE Pink - ACCOUNTING

**APPLICATION FOR APPROVAL**

520011

OFFICE USE ONLY		Application #
Date Rec'd (yyyy/mm/dd)	Ext. Ref. #	2012-083141
Total Fees Due 3044.19	Fees Paid 3044.19	NSE File # 92100-30
Receipt # PIC 2371	Paid in Full Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Water Auth. # (Div. 1 only)		

The non-refundable application fee is for processing the application. Receipt of the fee will not imply an approval or guarantee an approval will be given

Nova Scotia Environment will only collect, use, and disclose personal information in keeping with the privacy provisions of the Nova Scotia Freedom of Information & Protection of Privacy Act (FOIPOP).

PLEASE PRINT OR TYPE. Complete Sections 1, 2, 3, 4 and 7 for ALL Applications. Complete areas of Sections 5 and 6 that are applicable to the specific activities of this application only.

Type of Application:

New Application       Renewal       Amendment       Transfer

If applicable, provide the previous Approval #



**SECTION 1 - OWNER**

If there is more than one owner, please indicate who will be the primary applicant for this project and attach a complete list of owners.

Company/Organization/Municipality East Coast Energy Inc.					
Business Number (BN) if applicable 3234162					
Mr. <input type="checkbox"/>	Ms. <input checked="" type="checkbox"/>	Mrs. <input type="checkbox"/>	Other: <input type="checkbox"/>	Professional Designation	
First Name		Middle Initial	Family Name		
Phone Home (902)	Business (902) 755-5384		Ext.	Other	Ext.
Fax (902) 755-9406	E-mail @sympatico.ca				
Civic/Street Address 276 Foord Street					
Mailing Address (if different than Civic) PO Box 940					
County Pictou			City/Town Stellarton		
Province Nova Scotia	Postal Code B0K 1S0		Country Canada		

**SECTION 2 - APPLICATION CONTACT**

Is the Application Contact the same as Section 1 - Owner? Yes  No  If yes, please skip to Section 3.

Company/Organization/Municipality					
Business Number (BN) if applicable					
Mr. <input type="checkbox"/>	Ms. <input type="checkbox"/>	Mrs. <input type="checkbox"/>	Other: <input type="checkbox"/>	Professional Designation	
First Name		Middle Initial	Family Name		
Phone Home (902)	Business (902)		Ext.	Other (902)	Ext.
Fax (902)	E-mail				
Civic/Street Address					
Mailing Address (if different than Civic)					
County			City/Town		
Province Nova Scotia	Postal Code		Country Canada		

### SECTION 3 - SITE/LOCATION OF PROPOSED ACTIVITIES

Property Identification numbers (PID) are available at Service Nova Scotia and Municipal Relations.  
 1:50,000 Topo Maps (identifying Easting and Northing) are available at Nova Scotia Environment.

Site Name ECE-12	
Civic/Street Address Lease east and west off of Old Mill Road (Thomsen Road)	
County Pictou	Community Priestville/MacLellans Brook
Property Identification # (PID) 00874651, 00874651	1:50,000 Topo Map # 11E/10
Grid Reference Easting (6) 529,529	Northing (7) 5,045,380

### SECTION 4 - ACTIVITY

Proposed Activity - Please check (✓) all that apply.

<b>Biotechnology:</b>	Biological Remediation	<input type="checkbox"/>	Biotechnology Products Manufacturing Plant	<input type="checkbox"/>
<b>Chemical:</b>	Brine Processing	<input type="checkbox"/>	Industrial Cleaners Manufacturing	<input type="checkbox"/>
	Chemical Manufacturing	<input type="checkbox"/>	Paint Manufacturing	<input type="checkbox"/>
	Coke/Carbon Manufacturing	<input type="checkbox"/>	Pesticide Manufacturing	<input type="checkbox"/>
	Explosives Manufacturing	<input type="checkbox"/>	Petrochemical Manufacturing	<input type="checkbox"/>
	Fertilizer Manufacturing	<input type="checkbox"/>	Pharmaceutical Manufacturing	<input type="checkbox"/>
	Fertilizer Storage	<input type="checkbox"/>		
<b>Construction:</b>	Asphalt Paving Plant	<input type="checkbox"/>	Quarry	<input type="checkbox"/>
	Building Products Manufacturing	<input type="checkbox"/>	Ready-Mix Concrete Plant	<input type="checkbox"/>
	Cement Plant	<input type="checkbox"/>	Sandblasting Operation	<input type="checkbox"/>
	Ground Disturbance Pit	<input type="checkbox"/>	Sulphide Bearing Material Topsoil	<input type="checkbox"/>
<b>Food or Fish &amp; Animal Byproducts :</b>	Beer or Wine Processing Plant	<input type="checkbox"/>	Inland Fish Processing Plant	<input type="checkbox"/>
	Dairy Products Plant	<input type="checkbox"/>	Poultry Integrated Plant	<input type="checkbox"/>
	Distillery	<input type="checkbox"/>	Red Meat Integrated Plant	<input type="checkbox"/>
	Fish Meal Plant	<input type="checkbox"/>	Rendering Plant	<input type="checkbox"/>
	Fish Silage	<input type="checkbox"/>	Tannery	<input type="checkbox"/>
	Food Additive Plant	<input type="checkbox"/>	Vegetables Processing Plant	<input type="checkbox"/>
	Fruit Processing Plant	<input type="checkbox"/>		
<b>Metals:</b>	Battery Manufacturing Plant	<input type="checkbox"/>	Pewter Ware Manufacturing Facility	<input type="checkbox"/>
	Electroplating Plant	<input type="checkbox"/>	Rolling Stock Manufacturing Plant	<input type="checkbox"/>
	Foundry	<input type="checkbox"/>	Smelter	<input type="checkbox"/>
	Iron & Steel Mill	<input type="checkbox"/>		
<b>Minerals:</b>	Bulk Sample Site	<input type="checkbox"/>	Mineral Processing Plant	<input type="checkbox"/>
	Bulk Solids Handling Facility	<input type="checkbox"/>	Peat Moss Harvesting	<input type="checkbox"/>
	Coal Processing Plant	<input type="checkbox"/>	Surface Mine	<input type="checkbox"/>
	Leach Mining	<input type="checkbox"/>	Underground Mine	<input type="checkbox"/>
	Lime Plant	<input type="checkbox"/>		
<b>Oil &amp; Gas:</b>	Bio-remediation	<input type="checkbox"/>	Natural Gas Processing Plant	<input type="checkbox"/>
	Brine Storage Pond	<input type="checkbox"/>	Oil Refinery	<input type="checkbox"/>
	Compressor & Pumping Station	<input type="checkbox"/>	Exploration/Recovery-Petroleum/Natural Gas	<input checked="" type="checkbox"/>
	Deep Well Injection-Petroleum/Natural Gas	<input type="checkbox"/>	Re-refinery	<input type="checkbox"/>
	Liquified Natural Gas Plant	<input type="checkbox"/>	Bulk Petroleum Storage	<input type="checkbox"/>
<b>Power Plants</b>	<input type="checkbox"/>			
<b>Primary Manufacturing:</b>	Lead Crystal Manufacturing	<input type="checkbox"/>	Tire Manufacturing Plant	<input type="checkbox"/>
	Textile Manufacturing Plant	<input type="checkbox"/>	Wallpaper Manufacturing Plant	<input type="checkbox"/>
<b>Services:</b>	Sludge Treatment	<input type="checkbox"/>	Wastewater Treatment	<input type="checkbox"/>
<b>Wood Products:</b>	Pulp Manufacturing Plant	<input type="checkbox"/>	Wood Treatment Plant	<input type="checkbox"/>
	Pulp & Paper Manufacturing Plant	<input type="checkbox"/>		
<b>Miscellaneous:</b>	Biomedical Waste Incinerator	<input type="checkbox"/>	Industrial Incinerator	<input type="checkbox"/>
	Cemetery	<input type="checkbox"/>	Industrial Landfill	<input type="checkbox"/>
	Crematorium	<input type="checkbox"/>	Industrial Composting	<input type="checkbox"/>
	Dredge Spoils Disposal	<input type="checkbox"/>	Land Application of Waste	<input type="checkbox"/>
	Steel/Coke Waste Management	<input type="checkbox"/>		

Will this Activity employ a new technology?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If yes, please specify.		
Proposed Project Dates, if applicable (yyyy/mm/dd)		
Start Construction Date	2012/09/01	Start Operations 2012/09/15
		End/Closure Date 2017/12/31

## SECTION 5 - ACTIVITY DETAILS

Proposed Operating Schedule	Hours/Day	24	Days/Week	7	Weeks/Year	52
Type of Facility	Mobile	<input type="checkbox"/>	OR	Permanent	<input checked="" type="checkbox"/>	

## SECTION 6 - SUPPORTING DOCUMENTATION TO ATTACH

All supporting documentation is to be submitted in accordance with the "Approvals Procedures Regulations." If applicable, the following documents must be submitted with this Application; however, additional information may be requested.

**Note** - A legend must be supplied for all mapping describing symbols used, scale and north orientation.

<input checked="" type="checkbox"/>	Copy of the property deed, lease or letter proving the applicant's legal right to conduct the activity on the site
<input checked="" type="checkbox"/>	Copy of Registry of Joint Stocks printout showing the official company name, President & CEO, its agent, and verifying that the company is registered in good standing.
<input checked="" type="checkbox"/>	Copies of all existing approvals relating to the activity that have been issued by any agencies
<input checked="" type="checkbox"/>	A process description for the activity including (but not limited to): type of industry, size & capacity, raw materials & water used, discharge point, quantities of dangerous goods anticipated for use and material safety data sheets
<input checked="" type="checkbox"/>	If applicable, a description of blasting methods and schedule
<input checked="" type="checkbox"/>	Security (bond, cheque, etc.) for the proposed operation (if applicable).
<input checked="" type="checkbox"/>	Preliminary development, abandonment or rehabilitation Plan
<input checked="" type="checkbox"/>	Site Plan (scaled drawing, minimum scale 1:2,000) including (but not limited to): property boundaries, contours of the site & adjacent properties, location of all relevant structures, location of nearby watercourses, wetlands, dwellings, wells, water supplies, public roads & highways
<input checked="" type="checkbox"/>	Scaled engineering drawings, plans, and specifications that are stamped by a N. S. Licensed professional engineer including (but not limited to): <ul style="list-style-type: none"> <li>- Plans &amp; drawings for structures &amp; equipment used to obtain satisfactory treatment of wastes resulting from industrial processes.</li> <li>- Sufficient data to demonstrate the feasibility of a process to supply satisfactory treatment</li> <li>- Reports on the proposed treatment facilities indicating design capacities, flows, &amp; concentrations of wastes expected to be emitted to the environment</li> <li>- Calculations, factors, &amp; parameters used in the design of waste control systems</li> </ul>
<input checked="" type="checkbox"/>	Description of all liquid effluents discharged from the process/property including (but not limited to): <ul style="list-style-type: none"> <li>- Quality &amp; quantity of all surface discharge waters that have contacted unstabilized areas prior to discharge</li> <li>- Quality &amp; quantity of each liquid effluent discharge before and after treatment</li> <li>- Quality should include (if present) the concentration or levels of pH, temperature, chlorine residual, BODs, suspended solids, acute toxicity, heavy metals, total petroleum hydrocarbons, total oil &amp; grease, total dissolved solids, ammonia &amp; phosphorus, etc.</li> </ul>
<input checked="" type="checkbox"/>	Description of all air emissions discharged from the processes (stacks, vents, etc.), including (but not limited to): <ul style="list-style-type: none"> <li>- Stack height above base (metres), elevation at base (metres), stack top inside diameter (metres), flow velocity through the stack exit (metres/sec), temperature of stack gas at exit (°C)</li> <li>- Maximum and average daily concentrations of total particulate, total suspended particulate, specific particulates, metals, gases (general and odorous), carbon monoxide, VOCs, carbon dioxide, oxygen, oxides of nitrogen, hydrogen sulphide, sulphur dioxide and polyaromatic hydrocarbons before and after treatment</li> <li>- Capacity, type of fuel used, sulphur content of fuel, higher heating value of the fuel, monitoring equipment to be employed and soot blowing schedule if the process is a boiler or heating plant</li> </ul>
<input checked="" type="checkbox"/>	Description of all solid wastes that require disposal, including (but not limited to): <ul style="list-style-type: none"> <li>- Quantity and quality of all solid wastes with an indication of whether they are considered waste dangerous goods with applicable federal and provincial legislation. If necessary, leachate extraction procedure data should be submitted.</li> <li>- Location &amp; method of solid wastes disposal</li> <li>- Storage quantities of all wastes prior to disposal with storage site capacity &amp; schedule of disposal</li> <li>- Supporting geotechnical &amp; hydrological findings if waste is to be land filled</li> </ul>




Contingency plan, including (but not limited to):

- Scope of the plan (purpose, geographic area, and persons, groups, eg., that have responsibility)
- Notification procedures (what is to be reported, when, to whom, internal & external reporting procedures and a 24 hour telephone response number)
- Notification list including names & telephone numbers for all key internal response team personnel, telephone number for reporting environmental emergencies in N. S., relevant municipal/local telephone numbers (fire, police, ambulance, medical/hospital, clean-up contractors, etc.) And government assistance services such as CANUTEC
- Identification of a response team leader and the role of the response team leader respecting decision making, focal point, report preparation and submission, etc.
- Proposed containment and clean-up procedures
- Proposed transportation procedures
- Site restorations plan (in case of an accidental discharge) that will ensure that the area is rehabilitated to its pre-spill condition
- Proposed disposal procedures
- Available resources including manpower, contractors, treatment materials, expertise, communications, countermeasure equipment, etc.
- Public relations including the identification of an individual who can speak on behalf of the approval holder
- Incident reporting procedures and investigative follow-up procedures

**If information submitted is incomplete, or if supporting documentation is of poor quality (plans, maps, etc.), the application may be delayed, returned or rejected.**

**SECTION 7 - DECLARATION**

Correspondence is to be returned to:      Owner          OR      Application Contact   

Owner's Signature       Date (yyyy/mm/dd) 2012/08/14  
 Name (Please print or type) Julie Cohen, President & CEO for Eastcoast Energy Inc

**OWNER'S AUTHORIZATION (If Correspondence Is to Be Returned to Application Contact)**

If you are acting on behalf of the owner, you must:

1. Have the **Owner** sign above or  
 Attach a letter of authorization from the **Owner** identified on Page 1, Section 1, of this application.
2. Identify yourself as the **Application Contact** on Page 1, Section 2, of this application.
3. Sign the declaration below.

I certify that I am acting with the owner's full consent.

Signature \_\_\_\_\_ Date (yyyy/mm/dd) \_\_\_\_\_  
 Name (Please print or type) \_\_\_\_\_

# TRANSMITTAL FORM

**DILLON**  
CONSULTING

TO: NOVA SCOTIA ENVIRONMENT  
20 Pumphouse Road  
RR 3  
New Glasgow, NS B2H 5  
ATTENTION: Kathleen Johnson

DATE: March 6, 2013  
PROJECT NO: 10-4294-5000  
PROJECT NAME: Coal Bed Methane Exploration –  
Initial Domestic Well Survey



**ENCLOSED ARE:**

ORIGINAL DRAWINGS     PRINTS     SHOP DRAWINGS     SAMPLES     REPORT(S)  
 SPECIFICATIONS     ESTIMATES     COPY OF LETTER(S)     OTHER

NO. OF COPIES	DESCRIPTION OF DOCUMENTS OR OTHER ITEMS
1	Letters to residents re well sample results, dated March 6, 2013 (15 letters in total)

**PURPOSE:**

FOR INFORMATION                       FOR REVIEW & COMMENT     RETURNED FOR CORRECTIONS  
 FOR APPROVAL                             FOR YOUR FILES                 RETURNED AFTER LOAN TO US  
 AS REQUESTED                              REVIEWED AS NOTED          OTHER

**REMARKS:**

Kathleen, a copy of the residential letters has been provided for your records and for reference in case any of the residents call in with questions.

Bev Smith

*52004*

IF ENCLOSURES ARE NOT AS INDICATED  
PLEASE NOTIFY US AT ONCE

SENDER:

Dillon Consulting Limited