



June 24, 2016

KM LNG Operating Ltd.  
c/o Chevron Canada Limited  
500 - Fifth Avenue SW  
Calgary, AB  
T2P 0L7

Attention: KM LNG Operating Ltd.

RE: Permit Amendment

Date Amendment Issued: June 24, 2016

OGC #: 9635729

Amendment #: 2

Road Name KM LNG Bish R02084

Road # 02084

Location:

Segment 1 From NTS: d-57-J/103-H-15 To NTS: c-21-K/103-H-15

#### PERMISSIONS

##### *Oil and Gas Activities Act*

1. The BC Oil and Gas Commission (the "Commission"), under section 31(7) of the *Oil and Gas Activities Act*, hereby grants an amendment to the permit and any associated authorizations referenced above, subject to the original permit, any subsequent amendments and any additional or revised conditions as set out herein, as follows:
  - (1) Decrease the road area by 35.74 ha.
  - (2) The permissions and authorizations granted under this permit are limited to the area described in construction plan JOB: 3111-20087, DRAWING: J20087R1, REVISION 6, SHEET 1-4 OF 4, dated April 05, 2016 (the "construction plan") by McElhanney Geomatics Professional Land Surveying Ltd. as submitted to the Commission in the permit amendment application dated March 24, 2016 (hereinafter referenced together as the "operating area").

##### *Petroleum and Natural Gas Act*

2. Pursuant to section 138(1) of the *Petroleum and Natural Gas Act*, the permit holder is authorized to enter, occupy and use any unoccupied Crown land located within the operating area to carry out the oil and gas activity authorized under this permit.
3. The permission to occupy and use Crown land expires if this permit expires, or is suspended, cancelled, surrendered or declared spent.

## CONDITIONS

4. If artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act issued by the Commission in respect of that artifact, feature, material or thing:
  - a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
  - b. immediately notify the Commission and the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations
  - c. refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance with the Heritage Conservation Act and approved by the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations.
5. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the area.
6. The rights granted by this authorization are subject to all subsisting grants to or rights of any person made or acquired under the *Coal Act*, *Forest Act*, *Land Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Range Act*, *Water Sustainability Act* or *Wildlife Act*, or any extension or renewal of the same.
7. The permit holder must not assign, sublicense or transfer this permit or permit any person to use or occupy the land, other than its employees, contractors, or representatives, without the Commission's written consent.
8. The permit holder must ensure that the area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
9. The permit holder must ensure that the area is free of garbage, debris and unused equipment.
10. Within 60 days of the completion of construction activities under this permit, the permit holder must submit to the Commission a post-construction plan as a PDF plan and a shapefile accurately identifying the location of the total area actually disturbed under this permit. The shape file and plan must be submitted to via e-submission.

## ADVISORY GUIDANCE

1. Appropriate tenure will be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for any subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan no further applications for replacement tenure are required.
2. The term "unused equipment" has the same definition as in the Drilling and Production Regulation. A shoofly is a temporary workspace area that bypasses areas of pipeline right

This amendment forms an integral part of your permit(s) and should be attached thereto.



Justin Anderson  
Authorized Signatory  
Commission Delegated Decision Maker

pc: Commission No.: 9635729  
OGC, First Nations: HN



Commission File: 9635729

January 27, 2014

KM LNG Operating Ltd.  
500 – 5<sup>th</sup> Ave. SW  
Calgary, Alberta  
T2P 0L7

Attention: Surface Land Administrator

Re: Amendment of a Road Permit  
Road Permit #: 02084  
Road Name: KM LNG Bish R02084

### PERMISSIONS

1. The BC Oil and Gas Commission (the "Commission"), under section 31(7) of the *Oil and Gas Activities Act*, hereby grants an amendment to the Road Permit and to the Authorizations Associated with the Permit containing 104.38 hectares more or less, as shown on construction plan number; JOB: 3111-20087, DRAWING: J20087R1, Revision 4, Sheet 1-6 of 6, dated October 9, 2013, by Focus Surveys.

The Road Permit is amended by the following:

- Increase in total area of 0.68ha for a total 104.38ha .

### CONDITIONS

The Permit amendment is subject to the following conditions:

1. Known archaeological sites FITe-16, FITe-21, FITe-22, and FITe-23 are in conflict with the road and have not yet been subject to an Archaeological Impact Assessment. That portion of the road west of E:515548 N:5976607 cannot be upgraded, altered, or otherwise modified until such time as an Archaeological Impact Assessment has been conducted and an appropriate mitigation strategy has been approved by the Commission.
2. An Archaeological Impact Assessment is required for any portion of the proposed development area that has not already been subject to an assessment prior to any development activities taking place.
3. If an archaeological site is recorded as a result of this assessment, a report must be submitted immediately to the Archaeology Branch of FLNRO and Commission and all mitigation measures must be approved by the Archaeology Branch prior to the start of construction.
4. If no archaeological site is recorded during this assessment, an AIA report is still required and must be submitted to the Archaeology Branch and the OGC as soon as possible as per the Archaeology Process Guidelines.
5. If artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act in respect of that artifact, feature, material or thing:
  - a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
  - b. immediately notify the Archaeology Branch and Commission; and
  - c. refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance the Heritage Conservation Act, endorsed by a qualified archaeologist, and approved by the Archaeology Branch

6. The permit holder must notify Haisla Nation prior to commencement of project.

**AUTHORIZATIONS ASSOCIATED WITH THE PERMIT**

The Authorizations Associated with the Permit(s) have been amended as follows:

**Cutting Permit under Master Licence to Cut under section 47.4 of the *Forest Act***

- The Permit amendment results in an increase in new cut of 0.68ha from 0.0ha to 0.68ha and an increase in total area of 0.68ha for a total 93.24ha.

The Permit holder must comply with all conditions in the original permissions and any additional conditions as noted above to construct and maintain an oil and gas road #02084.

The Permit holder shall comply with all applicable laws, including the *Fisheries Act (Canada)*, *Water Act*, *Environmental Management Act*, *Workers Compensation Act*, *Wildlife Act* and the *Forest Act*.

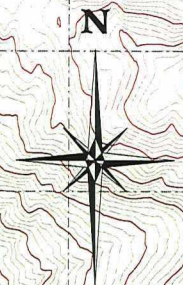
This amendment forms an integral part of your Permit(s) and should be attached thereto.



Lori Phillips  
Authorized Signatory  
Commission Delegated Decision Maker

cc: Scott Land and Lease  
OGC File: 9635729  
OGC, First Nations (HAISLA)  
MoFLNRO, Kalum

KITIMAT



C

END LOCATION

BLOCK C, GROUP 103-I-02

BLOCK B, GROUP 103-I-02

BLOCK K, GROUP 103-H-15

BLOCK J, GROUP 103-H-15

AtCan

END LOCATION

END LOCATION

PROPOSED 5m WIDTH ROAD UPGRADE

BLOCK K, GROUP 103-H-15

BLOCK J, GROUP 103-H-15

BLOCK F, GROUP 103-H-15

BLOCK G, GROUP 103-H-15

KITIMAT

ARM

END LOCATION

ROAD UPGRADE LOCATION SKETCH  
SCALE 1:50 000

McELHANNEY GEOMATICS  
PROFESSIONAL LAND SURVEYING LTD.



8808-72ND STREET  
FORT ST. JOHN, B.C. V1J 6M2  
PHONE (250) 787-0356  
FAX (250) 787-0310

Drawn: DV  
Date: OCT. 8, 2013.  
REVISION No. 4  
FILE: J20087-7ARI.DGN  
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9635729



January 16, 2012

KM LNG Operating Ltd.  
Suite 1000, 700 - 9th Avenue SW  
Calgary, Alberta  
T2P 3V4

Attention: Ryan Dallyn

**RE: Temporary Occupation of Crown Land - Road Works Permit**

**Road Location:**

**UTM Zone 09 Northing 5979428 Easting 519284 to UTM Zone 09 Northing 5973500 Easting 513810**

**Date of Issuance: January 16, 2012**

**Commission File No: 9635729**

## AUTHORIZATIONS

### Road Works Permit under section 14 of the Land Act

1. The Oil and Gas Commission hereby authorizes the holder of permit number 9635729, the following road works permit under section 14 of the Land Act, to occupy and use Crown land for the purpose of constructing, maintaining and operating a road, under Authorization Number 936614, subject to the following:
  - i. The authorization granted under this permit is limited to the area described in construction plan number File: 01197AS5.DGN, Rev. 0, dated October 24, 2011 as submitted to the Commission in the permit application dated November 18, 2011.
  - ii. In the event a heritage site, heritage object, or any other feature, place or material that may contain historical or archaeological value as defined by the Heritage Conservation Act [RSBC 1996] Chapter 187 is encountered, the permit holder must cease disturbance activities and immediately notify the Oil and Gas Commission.
  - iii. The permit holder must ensure that the road is designed, constructed and maintained in a manner that does each of the following:
    - a. enables industrial and non-industrial users of the road to use the road safely,
    - b. preserves the integrity of the topography of the area,
    - c. maintains the drainage water in the area, and
    - d. protects the stability of the terrain in the area.
  - iv. The permit holder must ensure that bridges are designed and fabricated in compliance with:
    - a. The Canadian Bridge Design Code, CAN/CSA-S6, of the Canadian Standards Association, and
    - b. soil property standards, as they apply to bridge piers and abutments, set out in the Canadian Foundation of Engineering Manual.
  - v. The permit holder must place and maintain a sign on each bridge approach that states the maximum load capacity of the bridge.
  - vi. The permit holder must ensure that each bridge is regularly inspected by a qualified person.
  - vii. The permit holder must ensure that culverts are fabricated in compliance with Canadian Standards Association CSA G401, Corrugated Steel Pipe Products, or Section B182.2 of Canadian Standards Association, Standard CSA B1800, Plastic Non-pressure Pipe Compendium, whichever is applicable, unless exempted by the Commission.
  - viii. The permit holder must ensure that the activities associated with this permit do not result in any deleterious materials being deposited into a stream, wetland or lake.
  - ix. The permit holder must notify the Commission a minimum of 2 days before beginning construction or modification of the road.

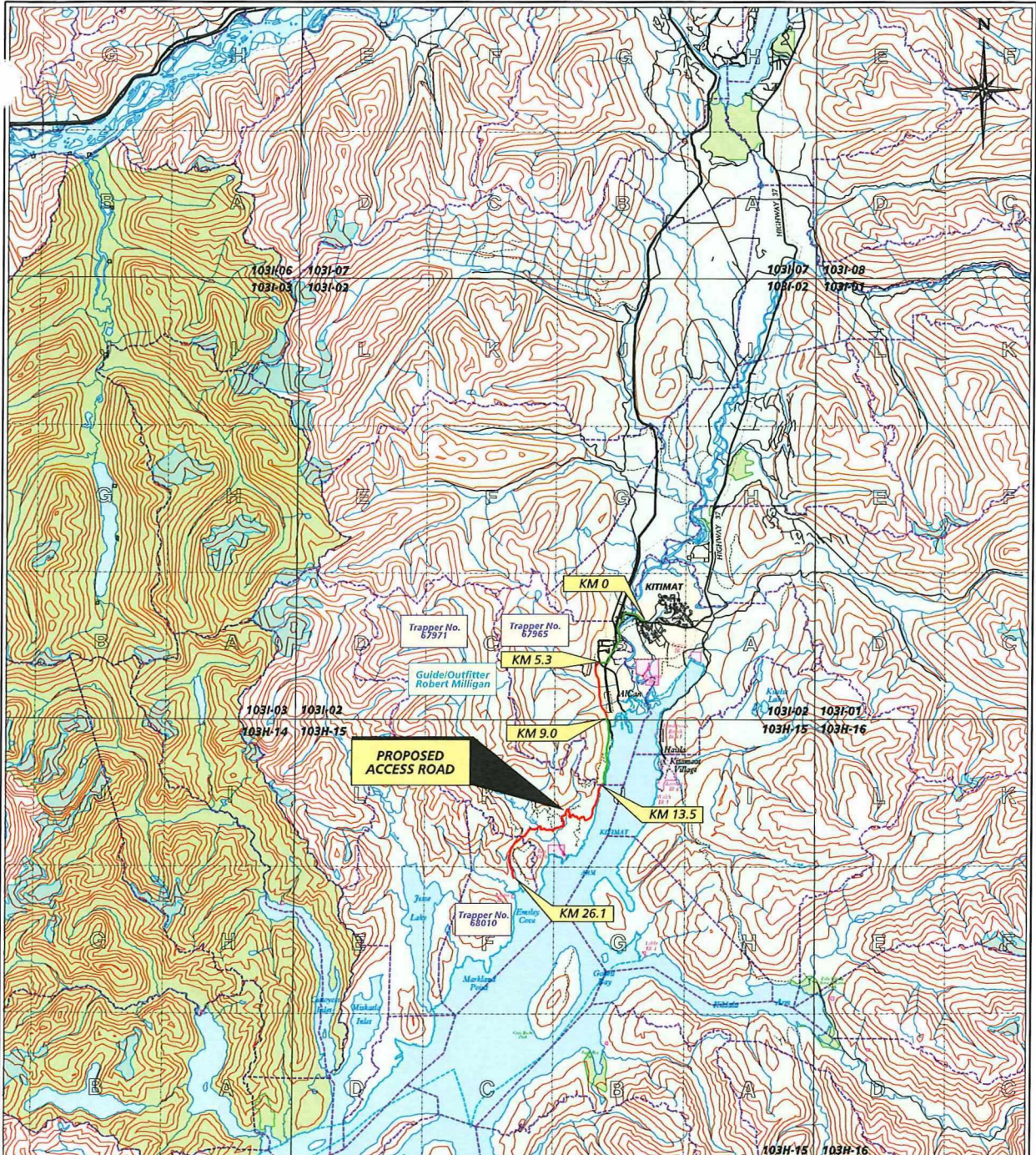
- x. The permit holder must perform the maintenance and modifications necessary to ensure that:
  - a. The road prism and all access structure related to the road are stable,
  - b. The bridges, culverts, fords, and other structures and works associated with the road are functional and appropriate for the uses of the road, and
  - c. The road can be used safely.
- xi. The permit holder may request limited maintenance should they not be actively using the road.
- xii. The permit holder must not operate a motor vehicle at a speed that is unsafe for the conditions and exceeds the lesser of 80 km/h or the speed posted on a relevant traffic control device.
- xiii. Within 60 days of the completion of the clearing phase of the activity authorized, the permit holder must submit to the Commission a Post-construction plan as an ePASS shape file identifying the location of the total area actually cleared under this permit.
- xiv. The permit holder must deactivate the road when the road is no longer needed to the following requirements or has been exempted from the Commission from those requirements:
  - a. Barricade the road surface width in a clearly visible manner to prevent access by motor vehicles;
  - b. Remove stream pipe culverts and arch culverts;
  - c. Remove bridge and log or box culvert superstructures, and substructures if the failure of the substructures would have a material adverse affect on downstream property, improvements or the environment;
  - d. Stabilize the road prism and the clearing width of the road.
- xv. The permit holder must not begin deactivating the road for 14 days from the date of submission to the Commission of their intent to deactivate the road.
- xvi. The permit holder will indemnify the Province of British Columbia (the "Province") and the Commission against all losses, damages, costs, and liabilities arising out of any breach or non-performance of any condition or agreement set out in this permit, and any personal injury, death or property damage occurring on the site or happening by virtue of the permit holder's occupation of the site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
- xvii. The permit holder will immediately effect, and keep in force while occupying the site, insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the permit holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party or public liability claims arising from any accident or occurrence on the site.
- xviii. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the area. The permit holder will not interfere with the activities of another person entering on and using the area under a prior or subsequent Land Act disposition.
- xix. The rights granted by this permit are subject to all subsisting grants to or rights of any person made or acquired under the Coal Act, Forest Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Water Act or Wildlife Act, or any extension or renewal of the same, any prior dispositions made under the Land Act, and the exceptions and reservations of rights and interests under Section 50 of the Land Act.
- xx. The permit holder will acknowledge and agree that any interference with rights granted under this permit by virtue of the exercise or operation of the rights or interests set out in Sections (xviii) or (xix) above shall not constitute a breach of the Province's or the Commission's obligations under this permit and the permit holder will release and discharge the Province and/or the Commission from any claim for loss or damage arising directly or indirectly out of any such interference. The permit holder will also agree to pay all costs and expenses that arise out of the permit holder's interference with the rights or interests set out in Sections (xviii) or (xix) and that the permit holder will not commence or maintain proceedings under Section 65 of the Land Act with respect to interference with the permit holder's rights arising out of exercise or operation of the rights set out in Sections (xviii) or (xix).
- xxi. The permit holder must pay, when due, the Fees to the address set out in the attached covering letter.
- xxii. The permit holder must not assign, sublicense or transfer the permit without the Commission's written consent.
- xxiii. This permit is valid for 10 years from the date of issuance unless cancelled or surrendered.



---

Tim Paul  
Natural Resources Officer  
Project Assessment and Compliance Assurance Division





**ACCESS TO FSR**  
 Km 0 = Kitimat, Lahakas Blvd and Stewart-Cassiar Highway 37  
 Km 0.0 - Km 5.3 Halsla Blvd  
 Km 5.3 - Km 9.0 Rile Tinto Alcan Halsla Blvd  
 Km 9.0 - Km 13.5 Bish FSR-Ministry of Forests  
 Km 13.5 - Km 26.1 Proposed Access Road

**MARKET SKETCH**  
 KM LNG Operating Ltd  
**PROPOSED ACCESS ROAD**  
 From Unit 37, Block B, Group 103-1-02 to Unit 83, Block F, Group 103-H-15

**McElhanney Geomatics**  
**PROFESSIONAL LAND SURVEYING LTD.**  
 8808 - 72ND STREET  
 FORT ST. JOHN, B.C. V1J 6M2  
 TEL: (250) 787-0336 FAX: (250) 787-0310

**- LEGEND -**

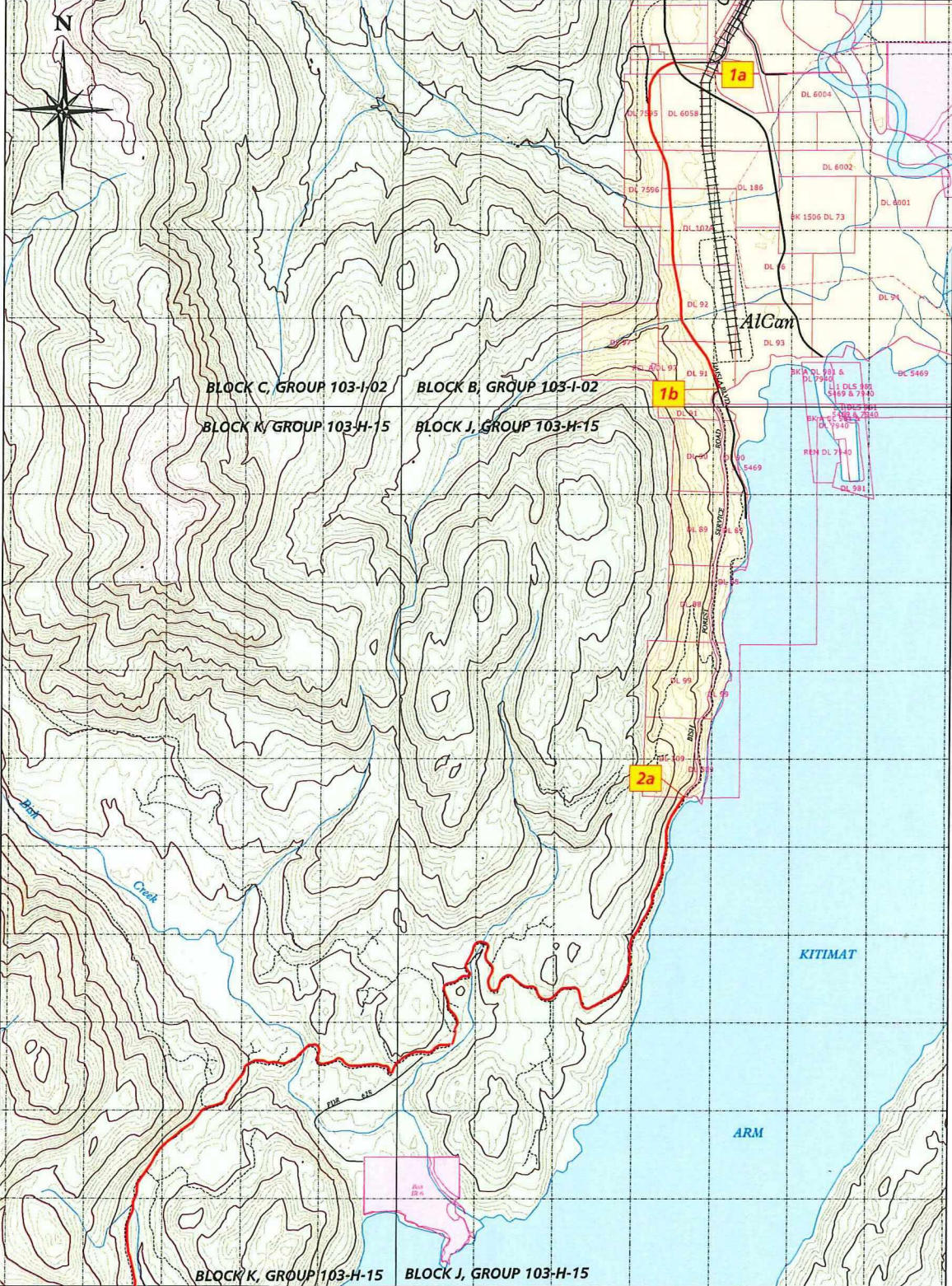
ALL SEASON ACCESS ROUTE	HIGHGRADE ROAD
WINTER ACCESS ROUTE	ACCESS ROAD
PROPOSED ROAD - BISH FOREST SERVICE ROAD	WINTER ROAD
PROPOSED NEW WINTER SERVICE ACCESS	LOWGRADE ROAD/RAIL
DENOTES GUIDE/OUTFITTER BOUNDARIES	
DENOTES TRAPPER BOUNDARIES	

DATE: NOVEMBER 10, 2011.	SCALE: 1:250,000	JOB No. 2321-01197-0
DRAWN: CJR	REVISION No. 0	FILE No. BISH-250.DGN

9635729

### Access Being Applied For

From	NTS/DLS	Easting (Zone 9 - Nad 83)	Northing (Zone 9 - Nad 83)	To	NTS/DLS	Easting (Zone 9 - Nad 83)	Northing (Zone 9 - Nad 83)	Width (m)	Length (Km)	Area (Ha)	OGC Road #
1a	c-37-B/103-I-02	519113	5987158	1b	b-6-B/103-I-02	565663	6383944	30.0	3.72	11.16	
2a	d-57-J/103-H-15	519284	5979428	2b	a-94-F/103-H-15	513810	5973500	75.0	12.37	92.78	



9635729

**ACCESS ROAD IMPROVEMENT SKETCH  
SCALE 1:50 000**

**McELHANNEY GEOMATICS**  
PROFESSIONAL LAND SURVEYING LTD.



**McElhanney**

8808-72ND STREET  
FORT ST. JOHN, B.C. V1J 6M2  
PHONE (250) 787-0356  
FAX (250) 787-0310

Drawn: JPM  
Date: OCTOBER 24, 2011.  
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REVISION No. 0  
FILE: 01197ASS.DGN



January 16, 2012

KM LNG OPERATING LTD.  
Suite 1000, 700 – 9<sup>th</sup> Avenue SW  
Calgary AB T2P 3V4

Attention: Ryan Dallyn

**RE: Prescribed Roads Permit - Private Land**

**Road Location:**

**From: UTM Zone 9 Northing 5987158 Easting 519113;**

**To: UTM Zone 9 Northing 6363944 Easting 565663**

**Date of Issuance: January 16, 2012**

**Commission File No: 9635729**

#### PERMISSIONS

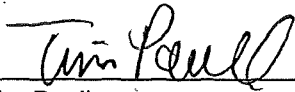
1. The Oil and Gas Commission, under section 25(1) of the Oil and Gas Activities Act, hereby permits the holder to construct and operate a road access, on private land, subject to the following conditions:
  - i. The permissions and authorizations granted under this permit are limited to the area described in construction plan number File: 01197AS5.DGN, revision 0, dated October 24, 2011 by McElhanney Geomatics Professional Land Surveying Ltd. as submitted to the Commission in the permit application dated November 18, 2011.

#### CONDITIONS

- ii. The permit holder must ensure that the road is designed, constructed and maintained in a manner that does each of the following:
  - a. enables industrial and non industrial users of the road to use the road safely,
  - b. preserves the integrity of the topography of the area,
  - c. maintains the drainage water in the area, and protects the stability of the terrain in the area
- iii. The permit holder must perform the maintenance and modifications necessary to ensure that:
  - a. The road prism and all access structures related to the road are stable,
  - b. The bridges, culverts, fords, and other structures and works associated with the road are functional and appropriate for the uses of the road, and
  - c. The road can be used safely.
- iv. In the event a heritage site, heritage object, or any other feature, place or material that may contain historical or archaeological value as defined by the *Heritage Conservation Act* [RSBC 1996] Chapter 187 is encountered, the permit holder must cease disturbance activities and immediately notify the Oil and Gas Commission.

**ADVISORY GUIDANCE**

1. This permit expires two years from the date of issuance as per section 8 of the *Oil and Gas Activities Act* General Regulation if the permit holder has not begun the construction of the road permitted unless the permit has been extended.
2. Within 60 days of the completion of the clearing phase of the activity permitted, the permit holder must submit to the Commission a Post construction plan as an ePASS shape file identifying the location of the total area actually cleared under this permit.



Tim Paull  
Authorized Signatory  
Commission Delegated Decision Maker

cc: Chris Lind, FLNR, Kalum District  
#200 – 5220 Keith Avenue  
Terrace, BC V8G 1L1

### Access Being Applied For

From	NTS/DLS	Easting (Zone 9 - Nad 83)	Northing (Zone 9 - Nad 83)	To	NTS/DLS	Easting (Zone 9 - Nad 83)	Northing (Zone 9 - Nad 83)	Width (m)	Length (km)	Area (Ha)	OGC Road #
1a	c-37-B/103-I-02	519113	5987158	1b	b-6-B/103-I-02	565663	6363944	30.0	3.72	11.16	
2a	d-57-J/103-H-15	519284	5979428	2b	a-94-F/103-H-15	513810	5973500	75.0	12.37	92.78	



9635729

**ACCESS ROAD IMPROVEMENT SKETCH  
SCALE 1:50 000**

**McELHANNEY GEOMATICS**  
PROFESSIONAL LAND SURVEYING LTD.



**McElhanney**

8506-72ND STREET  
FORT ST. JOHN, B.C. V1J 6M2  
PHONE (250) 787-0356  
FAX (250) 787-0310

Drawn: JFM  
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