



December 2, 2015

Trans Mountain Pipeline ULC  
2700, 300 - 5th Avenue SW  
Calgary, AB T2P 5J2

Attention: Surface land Administrator

Re: Investigative Permit located at d-34-H, 92-H-5

Date of Issuance: December 2, 2015  
Commission No.: 9642551

#### AUTHORIZATIONS

1. Pursuant to section 39 of the *Land Act*, the permit holder is authorized to enter, occupy, and use any unoccupied Crown land located within the areas described in the attached construction plan, Map Number: 201504\_MAP\_TERA\_PER\_00719\_REV0\_CP, Revision 0, dated May 11, 2015 completed by CH2M Hill Energy Canada, Ltd. as submitted to the Commission in the permit application dated June 5, 2015 to construct and operate a related activity for the purposes of carrying out oil and gas activities as defined in the *Oil and Gas Activities Act* (hereinafter referenced together as the "site"), subject to the conditions set out below.
2. The authorization to occupy and use Crown land expires two years from the date of issuance, unless the Commission has received notice of construction start, or this authorization is otherwise suspended, cancelled, surrendered or declared spent.

#### CONDITIONS

1. The total disturbance within the site must not exceed 0.09 ha.
2. A licence authorized under section 39 of the *Land Act* for the Crown land portion of this site is attached. The permit holder is subject to the conditions contained in the licence.
3. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the site.
4. The permit holder must abide by and comply with all applicable laws, bylaws, orders, directions, ordinances, and regulations of any government authority having jurisdiction in any way affecting its use or occupation of the site, including, without limitation, the provisions of the *Land Act* and the provisions of this permit.
5. 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.
6. A notice of construction start must be submitted to the Commission a minimum of 48 hours prior to the commencement of activities under this permit. Notification must be sent to [OGC.ExternalNotifications@bcogc.ca](mailto:OGC.ExternalNotifications@bcogc.ca).
7. The permit holder must ensure that the area is free of garbage, debris and unused equipment.
8. Following completion of the activities authorized under this permit the permit holder must, as soon as practicable, de-compact any soils compacted by the activity.

9. If natural surface drainage pattern was altered by the carrying out of the activity, the permit holder must
  - a. restore, to the extent practicable, to the drainage pattern and its condition before the alteration; and
  - b. re-vegetate any exposed soil on the operating area using seed or vegetative propagules of an ecologically suitable species that
    - i. promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
    - ii. stabilize the soil if it is highly susceptible to erosion.
10. Following completion of the activities authorized under this permit, any surface soils removed from the site must be redistributed so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.
11. 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 an ePASS shape file and PDF plan accurately identifying the location of the total area actually disturbed under this permit.
12. 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 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 Commission.
13. The permit holder shall provide the following information to the Peters Band within seven (7) days of drilling activities: (i) borehole logs, (ii) a map showing borehole locations, (iii) confirmation that borehole drilling, surface sealing, and closure are carried out in accordance with the Ground Water Protection Regulation (British Columbia), as amended from time to time.
14. The permit holder must notify the Coldwater Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.
15. The permit holder must notify Stz'uminus First Nation minimum of 48 hours prior to commencing any construction activities under this permit.
16. The permit holder must notify Esh-kn-am Cultural Resource Management a minimum of 48 hours prior to commencing any construction activities under this permit.
17. The permit holder must notify Halalt First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
18. The permit holder must notify Lake Cowichan First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
19. The permit holder must notify the Lytton First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
20. The permit holder must notify the Lower Nicola Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.
21. The permit holder must notify the Lyackson First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
22. The permit holder must notify the Nooaitch Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.

23. The permit holder must notify the Nooaitch Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.
24. The permit holder must notify the Nlaka'pamux Naton Tribal Council a minimum of 48 hours prior to commencing any construction activities under this permit.
25. The permit holder must notify the Nicola Tribal Association a minimum of 48 hours prior to commencing any construction activities under this permit.
26. The permit holder must notify the Oregon Jack Creek Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.
27. The permit holder must notify the Peters Band a minimum of seven (7) calendar days prior to commencing any permitted works.
28. The permit holder must notify Popkum First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
29. The permit holder must notify People of the River Referrals Office a minimum of 48 hours prior to commencing any construction activities under this permit.
30. The permit holder must notify the Penelakut Tribe a minimum of 48 hours prior to commencing any construction activities under this permit.
31. The permit holder must notify the Siska Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.
32. The permit holder must notify Seabird Island First Nations a minimum of 48 hours prior to commencing any construction activities under this permit.
33. The permit holder must notify the Sto:lo Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
34. The permit holder must notify the Sto:lo Tribal Council a minimum of 48 hours prior to commencing any construction activities under this permit.
35. The permit holder must notify the Union Bar Band a minimum of 48 hours prior to commencing any construction activities under this permit.
36. The permit holder must notify Spuzzum First Nation a minimum of 48 hours prior to commencing any construction activities under this permit.
37. The permit holder must notify the Cowichan Tribes a minimum of 48 hours prior to commencing any construction activities under this permit.
38. The permit holder must notify the Cook's Ferry Indian Band a minimum of 48 hours prior to commencing any construction activities under this permit.

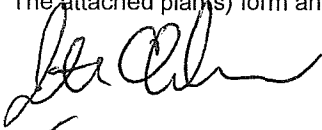
#### ADVISORY GUIDANCE

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. In the event of a spill, the permit holder will provide the Peters Band notice at the same time as to regulatory agencies.
3. On request to TMEP by Peters Band, the permit holder shall allow a Peters Band member or

representative to be on-site during the permitted works. Such Peters Band member or representative will abide to applicable site health and safety requirements specified by the site supervisor.

4. The People of the River Office has requested that the permit holder allow a People of the River Office representative to be on site during permitted works. The People of the River Office must communicate their request for attendance with the company prior to a site visit taking place, and will be subject to health and safety, and at the discretion of the site supervisor.

The attached plan(s) form an integral part of this authorization.



For:

Andrew Osmond  
Natural Resources Officer

pc. BV Land Corp.

OGC File: 9642551

OGC First Nations: CFIB, CT, CWIB, ECRM, HLFN, LCFN, LFN, LNIB, LYFN, NBFN, NNTC, NTA, OJCB, PFN, PKFN, PRRO, PT, SBFN, SIFN, SN, SPFN, STC, SZFN, UBB

WorkSafeBC



605800

606000

606200

Applicant Company:  
Trans Mountain Pipeline ULC.



**HDD INVESTIGATIVE AREA  
TRANS MOUNTAIN EXPANSION PROJECT**

**CONSTRUCTION PLAN SHOWING:  
MOUNTAIN CROSSING 1**  
Location: Quarter D of Unit 34 of Block H, Group 92-H-5 at approximately: 121° 32' 25" W 49° 21' 48" N  
Applicant File Number: P3-2015-MTX1  
EPASS: 10052326  
BCGS: 92 H.033  
NTS: 92H55E

**SITE: MOUNTAIN CROSSING 1**  
BCGS: 92H.033  
NTS: 92H55E

- Investigative Use Area Boundary
- Proposed Borehole Pad Location
- Access Trail Boundary
- Trans Mountain Expansion Project Proposed Pipeline Corridor
- Highway
- Paved Road
- Private Land Parcel
- Crown Land Parcel
- Trapper Boundary

| Rev. | Revision              | Date   | By  |
|------|-----------------------|--------|-----|
| 0    | Original plan created | May-15 | SES |

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Projection: NAD 1983 UTM Zone 10N. Transportation: BC FLNRO 2012 & Natural Resources Canada, 2012; Geopolitical Boundaries: Natural Resources Canada, 2003, IHS Inc., 2011; BC Trappers: BC Ministry of Environment, 2007; PNG Grid: TERA Environmental Consultants, 2010; BCGS Grid: BC FLNRO 2003. OGMAS, Cutblocks: BC FLNRO 2013. Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Notes:  
1. CH2M Contact: James Webster, Suite 1100, 815-8th Avenue SW, Calgary, AB (403-265-2885)  
2. Exact placement of work area within the investigative use area to be determined in field.



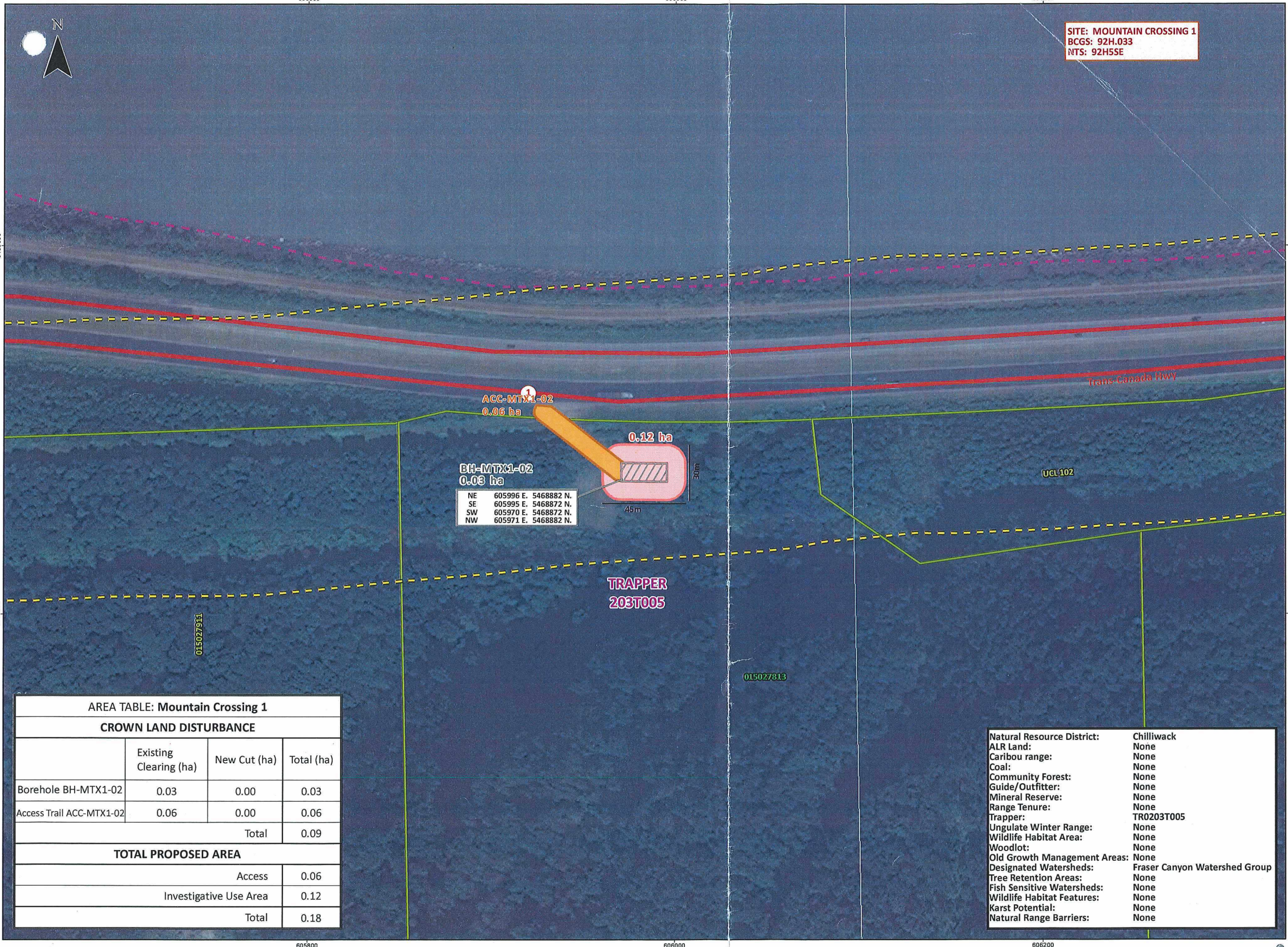
*Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.*

| MAP NUMBER                        | TERA PER | REV       | DATE        | TERA REF.  | REVISION | PAGE         |
|-----------------------------------|----------|-----------|-------------|------------|----------|--------------|
| 201504_MAP_TERA_PER_00719_REV0_CP |          |           | 11 May 2015 | 492592     | 0        | SHEET 1 OF 1 |
| SCALE                             | 1:2,000  | PAGE SIZE | 11x17       | DISCIPLINE | PER      |              |
| DRAWN                             | SES      | CHECKED   | CS          | DESIGN     | TGG      |              |

SCALE: 1:2,000



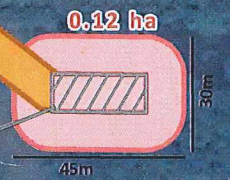
9642591



**ACC-MTX1-02**  
0.06 ha

**BH-MTX1-02**  
0.03 ha

|    |           |            |
|----|-----------|------------|
| NE | 605996 E. | 5468882 N. |
| SE | 605995 E. | 5468872 N. |
| SW | 605970 E. | 5468872 N. |
| NW | 605971 E. | 5468882 N. |



**TRAPPER**  
**203T005**

| AREA TABLE: Mountain Crossing 1 |                        |              |            |
|---------------------------------|------------------------|--------------|------------|
| CROWN LAND DISTURBANCE          |                        |              |            |
|                                 | Existing Clearing (ha) | New Cut (ha) | Total (ha) |
| Borehole BH-MTX1-02             | 0.03                   | 0.00         | 0.03       |
| Access Trail ACC-MTX1-02        | 0.06                   | 0.00         | 0.06       |
| Total                           |                        |              | 0.09       |
| TOTAL PROPOSED AREA             |                        |              |            |
| Access                          |                        |              | 0.06       |
| Investigative Use Area          |                        |              | 0.12       |
| Total                           |                        |              | 0.18       |

|                              |                               |
|------------------------------|-------------------------------|
| Natural Resource District:   | Chilliwack                    |
| ALR Land:                    | None                          |
| Caribou range:               | None                          |
| Coal:                        | None                          |
| Community Forest:            | None                          |
| Guide/Outfitter:             | None                          |
| Mineral Reserve:             | None                          |
| Range Tenure:                | None                          |
| Trapper:                     | TR0203T005                    |
| Ungulate Winter Range:       | None                          |
| Wildlife Habitat Area:       | None                          |
| Woodlot:                     | None                          |
| Old Growth Management Areas: | None                          |
| Designated Watersheds:       | Fraser Canyon Watershed Group |
| Tree Retention Areas:        | None                          |
| Fish Sensitive Watersheds:   | None                          |
| Wildlife Habitat Features:   | None                          |
| Karst Potential:             | None                          |
| Natural Range Barriers:      | None                          |

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