



# GTN and NGTL/FH Operations Customer Meeting

November 18, 2020



- 
1. Safety Moment
  2. Explore Energy
  3. Operational Collaboration
  4. GTN Operational Update
  5. NGTL/FH Operational Update
  6. Q&A



# Clean your desk



3. Use a disinfectant wipe to wipe down your mouse, keyboard, phone, mobile device, monitors and chair handles

2. Ensure all computers are locked (CTRL-ALT-DELETE) while cleaning to prevent accidental keyboard or mouse clicking

1. Remove all clutter from the work area

4. Use a disinfectant wipe to wipe down any horizontal surfaces (e.g. desktop surfaces)



5. Wash your hands with soap and warm water for at least 20 seconds especially after cleaning. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry.

*Examples of disinfectant wipes are:*

- alcohol solutions with at least 70% alcohol
- Clorox Disinfecting Wipes
- Oxivir 1 Wipes
- PURELL Professional Surface Disinfectant Wipes

*Please note that building cleaning services clean and disinfect common areas such as high touch points, bathrooms, and kitchens on a daily frequency.*

# Explore Energy

Exploring your top-of-mind energy questions.

## Creating our energy future

We're finding solutions for the sustainable energy future you want and sharing our insights and ideas on the current issues and challenges that are shaping the energy industry.



Two reasons we need pipelines



The safest way to bring you energy



Keystone XL: a safe and reliable source of energy

BROWSE ALL TOPICS

## Understanding how it works

Take a deeper dive into the world of energy to understand the 'ins and outs' of how it works and the vital role it plays in our lives.



Life cycle of a pipeline



How North America's energy system connects



The role of oil in our everyday lives

BROWSE ALL TOPICS

At [TCEnergy.com/Explore-Energy](https://www.tceenergy.com/explore-energy), we provide insights, ideas, quick facts and messaging across a wide range of topics about our company, what's important to us and developments that describe or affect our industry and energy future.

Share with your friends, family, professional network or anyone who may want more information about us and what we do.



# GTN 2021 Operations/Outage Schedule

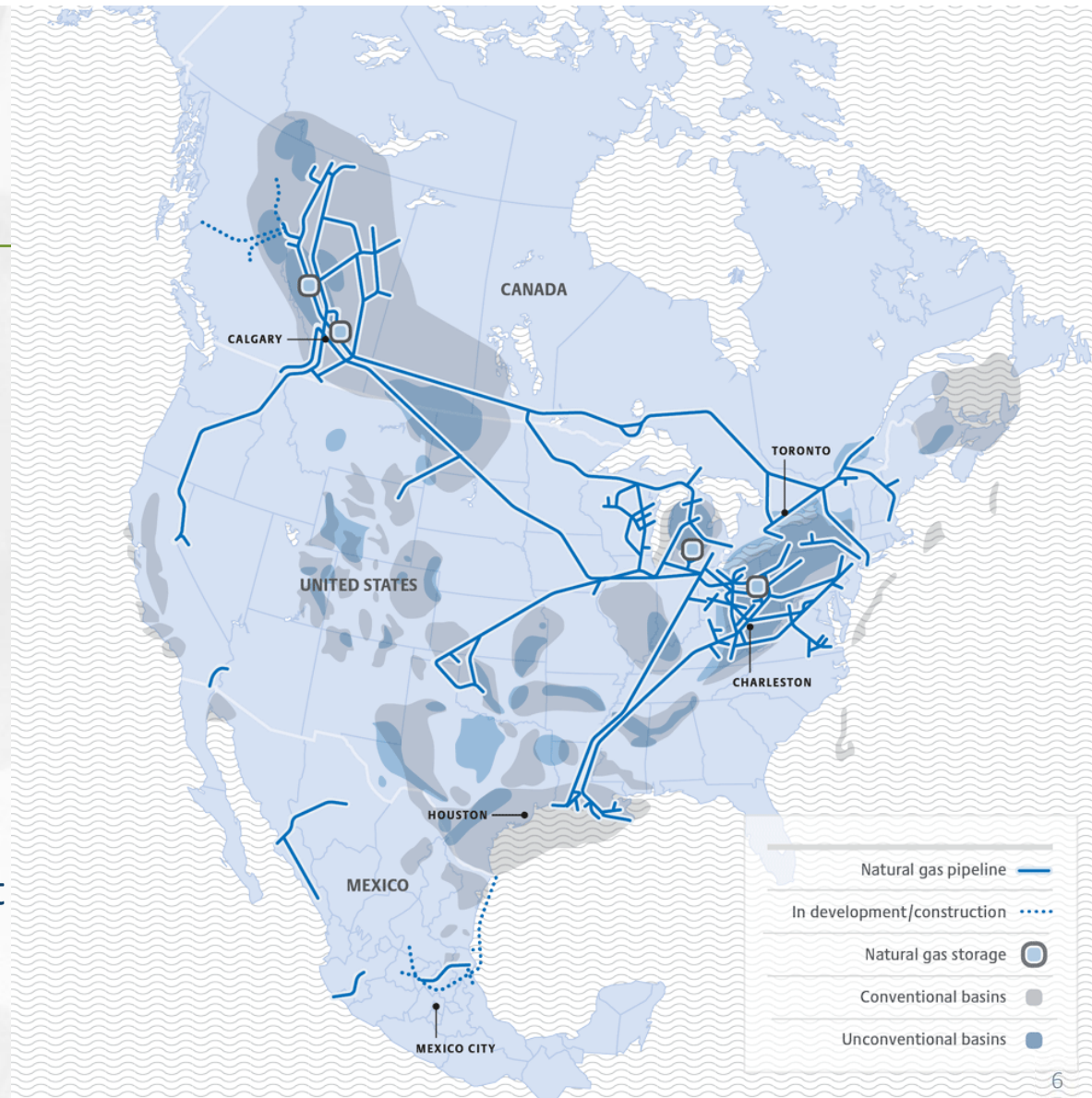
Paul Oliver – Manager US Gas Control West

# Striving for Operational Excellence

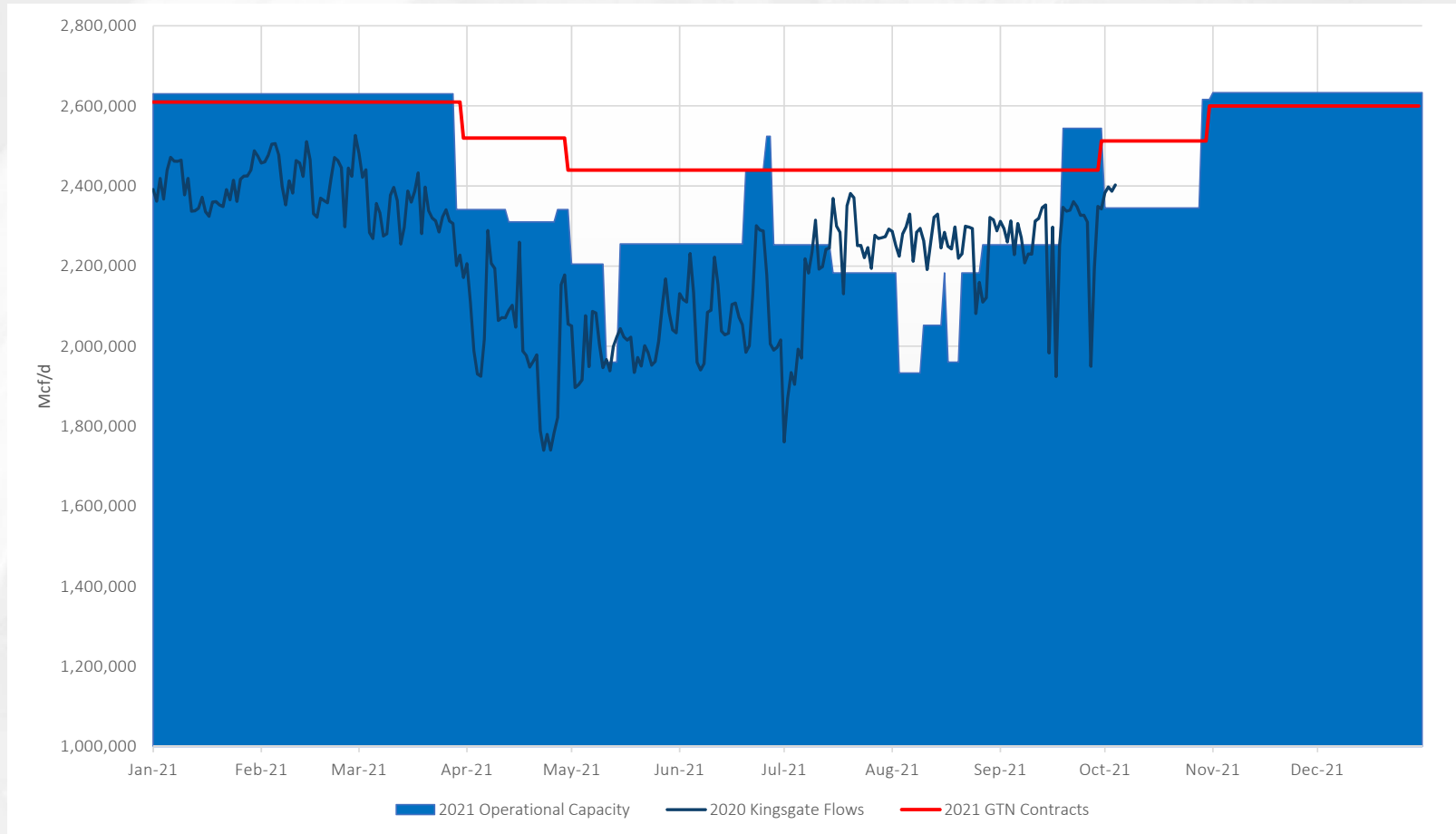
- Frequent collaboration to minimize impacts to customers
- Constant communications
- Adherence to codes of conduct
- Participation in Pacific Region Operations/Maintenance Meeting

## 2021 focus

- Continue enhancing system reliability
- Yearly maintenance and optimization
- Construction/Maintenance impacts at Kingsgate and Malin



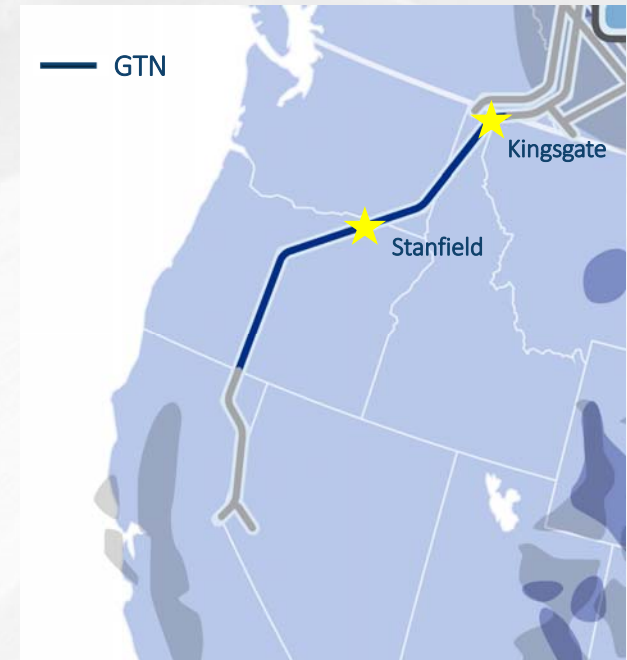
# GTN Operational Capacity with Impact





# GTN 2021 North of Stanfield Planned Maintenance

Jan - Feb 2021	North of Stanfield	Flow Past Kingsgate Capacity
	Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,630-MMcf/d
Mar 2021	North of Stanfield	Flow Past Kingsgate Capacity
3/1 - 3/28	Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,630-MMcf/d
3/29 - 3/31	Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,341-MMcf/d
April 2021	North of Stanfield	Flow Past Kingsgate Capacity
4/1 - 4/5	Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,341-MMcf/d
4/6 - 4/26	Station 3 Hydro, Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,310-MMcf/d
4/27 - 4/30	Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,341-MMcf/d

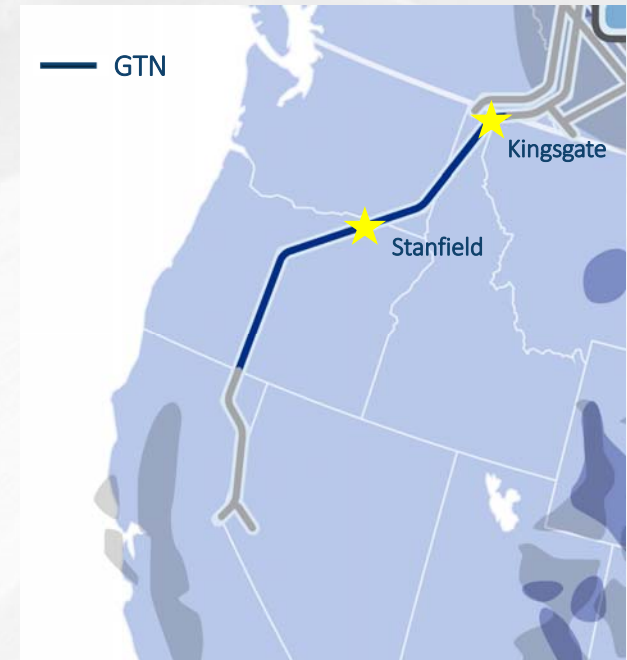


Outage dates based upon currently available information and are subject to change.



## GTN 2021 North of Stanfield Planned Maintenance

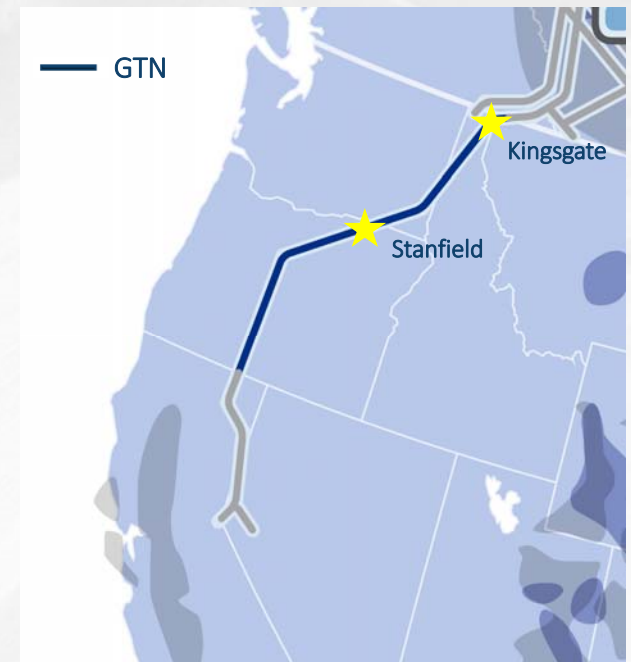
May 2021	North of Stanfield	Flow Past Kingsgate Capacity
5/1 - 5/10	Green Acres pipe replacement (MLV5-2A), Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,205-MMcf/d
5/11	Rosalia Station 6 to Station 9 'A' line EMAT, Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	1,960-MMcf/d
5/12 – 5/14	Rosalia Station 6 to Station 9 'A' line EMAT, MLV 4-1 A-line hydrotest (Cocollala Lake), Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	1,960-MMcf/d
5/15 - 5/31	MLV 4-1 A-line hydrotest (Cocollala Lake), Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,255-MMcf/d
June 2021	North of Stanfield	Flow Past Kingsgate Capacity
6/1 - 6/19	MLV 4-1 A-line hydrotest (Cocollala Lake), Rosalia Station 6, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,255-MMcf/d
6/20 - 6/26	MLV 4-1 A-line hydrotest (Cocollala Lake), Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,441-MMcf/d
6/27 – 6/30	Sandpoint Station 4, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,253-MMcf/d



Outage dates based upon currently available information and are subject to change.

## GTN 2021 North of Stanfield Planned Maintenance

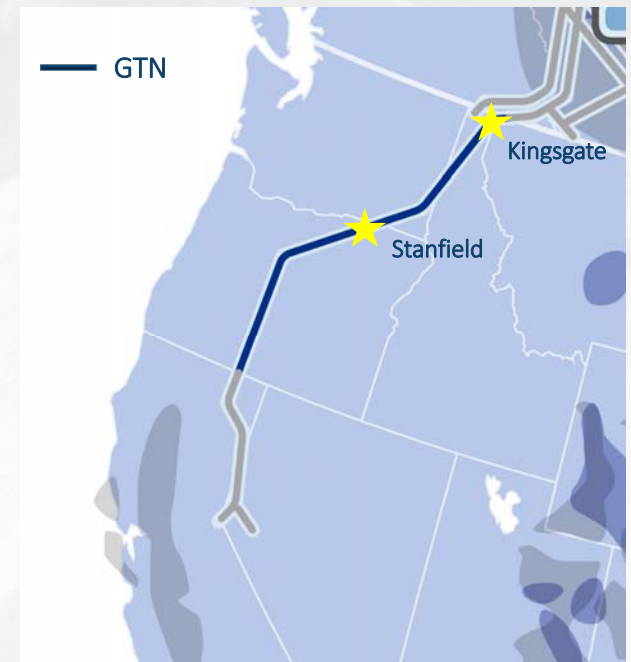
July 2021	North of Stanfield	Flow Past Kingsgate Capacity
7/1 - 7/14	Sandpoint Station 4, Athol Station 5 'B' Unit Unavailable Starbuck Station 7 'B' Unit Unavailable	2,253-MMcf/d
7/15 - 7/31	Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	2,183-MMcf/d
Aug 2021	North of Stanfield	Flow Past Kingsgate Capacity
8/1 - 8/2	Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	2,183-MMcf/d
8/3 - 8/9	Eastport Station 3 Bypass, Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	1,933-MMcf/d
8/10 - 8/15	Sandpoint Station 4 Receiver and Maintenance, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	2,052-MMcf/d
8/16	Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	2,183-MMcf/d
8/17 - 8/20	Kingsgate to Sta 4 B-line ILL, Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	1,960-MMcf/d



Outage dates based upon currently available information and are subject to change.

## GTN 2021 North of Stanfield Planned Maintenance

Aug 2021 Cont'd	North of Stanfield	Flow Past Kingsgate Capacity
8/21 - 8/26	Sandpoint Station 4, Starbuck Station 7, Athol Station 5 'B' Unit Unavailable	2,183-MMcf/d
8/27 - 8/31	Sandpoint Station 4, Athol Station 5 'B' Unit Unavailable	2,253-MMcf/d
Sept 2021	North of Stanfield	Flow Past Kingsgate Capacity
9/1 - 9/18	Sandpoint Station 4, Athol Station 5 'B' Unit Unavailable	2,253-MMcf/d
9/19 - 9/30	Athol Station 5 'B' Unit Unavailable	2,544-MMcf/d
Oct 2021	North of Stanfield	Flow Past Kingsgate Capacity
10/1 - 10/28	Athol Station 5	2,345-MMcf/d



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## 2021 GTN South of Stanfield Planned Maintenance

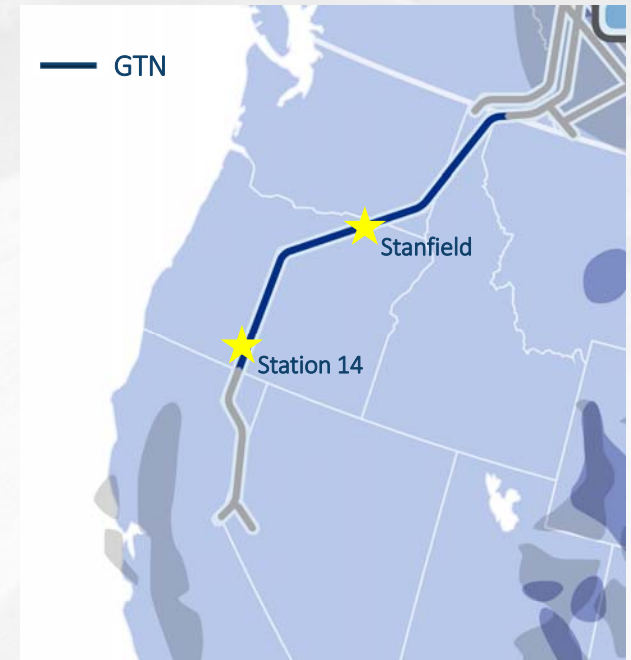
April 2021	South of Stanfield	Flow Past Station 14 Capacity
4/13 - 4/30	Bonanza Station 14	1,607-MMcf/d
May 2021	South of Stanfield	Flow Past Station 14 Capacity
5/1 - 5/31	Bonanza Station 14	1,607-MMcf/d
June 2021	South of Stanfield	Flow Past Station 14 Capacity
6/1 - 6/19	Bonanza Station 14	1,607-MMcf/d
6/26 - 6/30	Kent Station 10	1,867-MMcf/d
July 2021	South of Stanfield	Flow Past Station 14 Capacity
7/1 - 7/31	Kent Station 10	1,867-MMcf/d
Aug 2021	South of Stanfield	Flow Past Station 14 Capacity
8/1 - 8/31	Kent Station 10	1,867-MMcf/d



\*Outage dates based upon currently available information and are subject to change.

## 2021 GTN South of Stanfield Planned Maintenance

Sept 2021	South of Stanfield	Flow Past Station 14 Capacity
9/1 - 9/17	Kent Station 10	1,867-MMcf/d
9/18 - 9/20	Chemult Station 13	1,755-MMcf/d
9/21 - 9/30	Bend Station 12	1,849-MMcf/d
Oct 2021	South of Stanfield	Flow Past Station 14 Capacity
10/1 - 10/31	Bend Station 12	1,849-MMcf/d
Nov 2021	South of Stanfield	Flow Past Station 14 Capacity
11/1 - 11/30	Bend Station 12	1,849-MMcf/d
Dec 2021	South of Stanfield	Flow Past Station 14 Capacity
12/1 - 12/15	Bend Station 12	1,849-MMcf/d



Outage dates based upon currently available information and are subject to change.



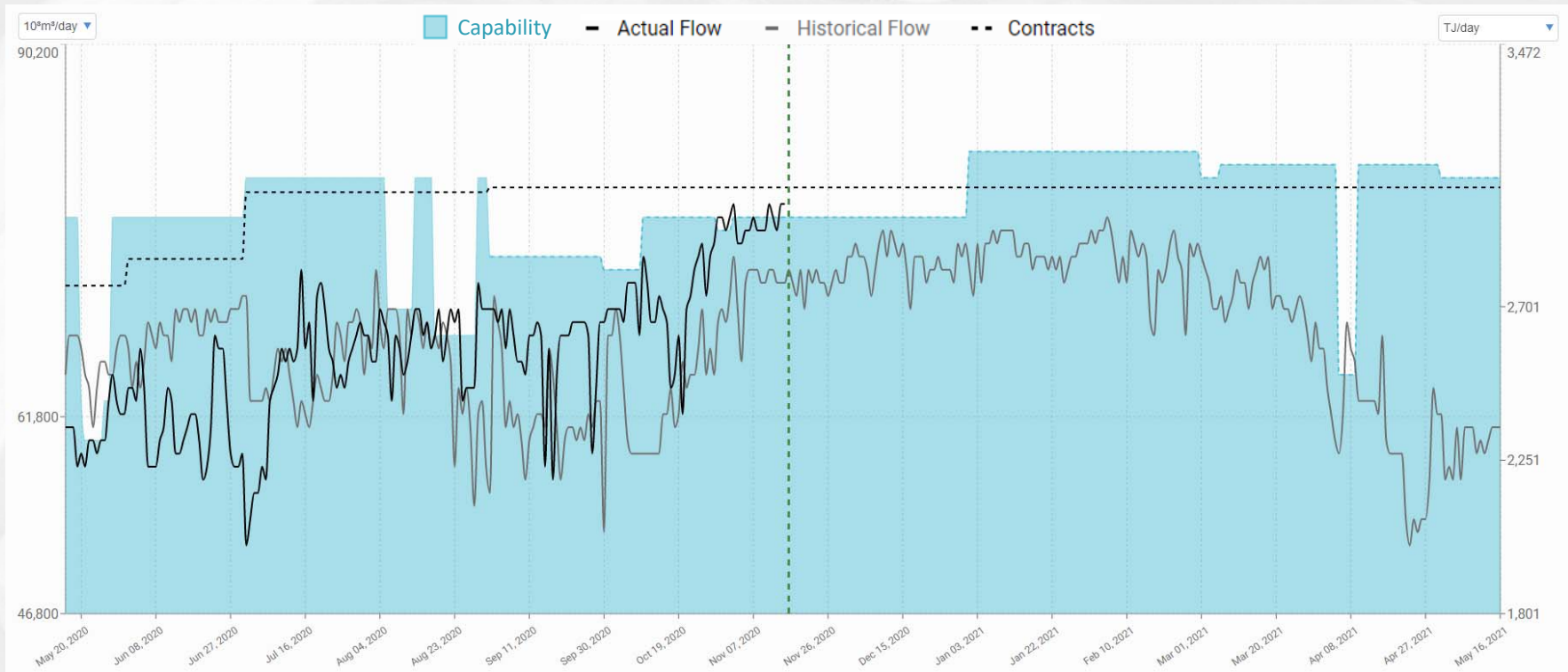
# NGTL/FH Operations/Outage Schedule

Danvy Tran, Canada Gas, Operations Planning West

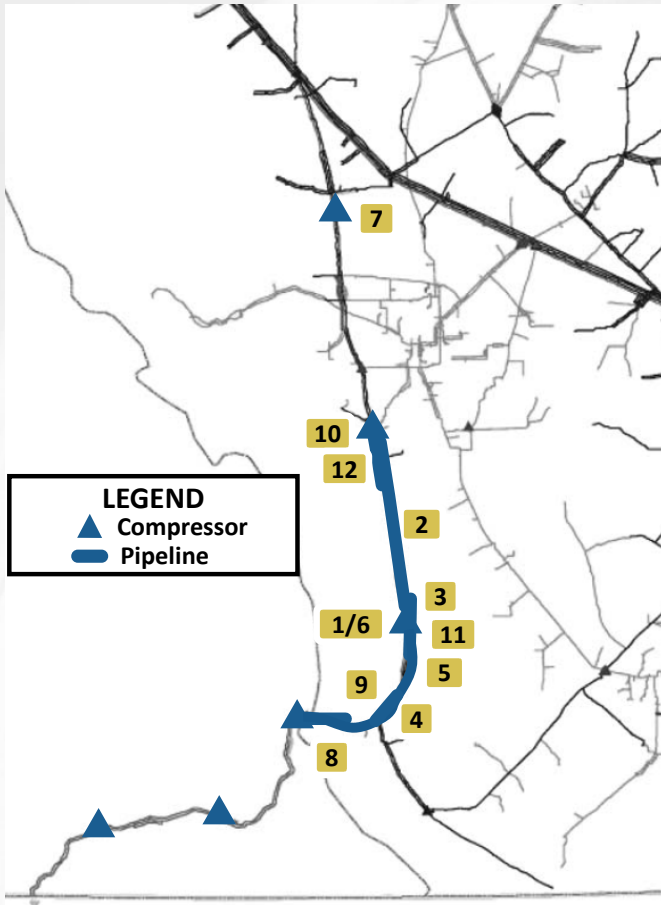


# Operational Capability Outlook – Alberta-British Columbia Border (ABC)

## Alberta-B.C. Border



# NGTL/FH Outage Schedule - WGAT

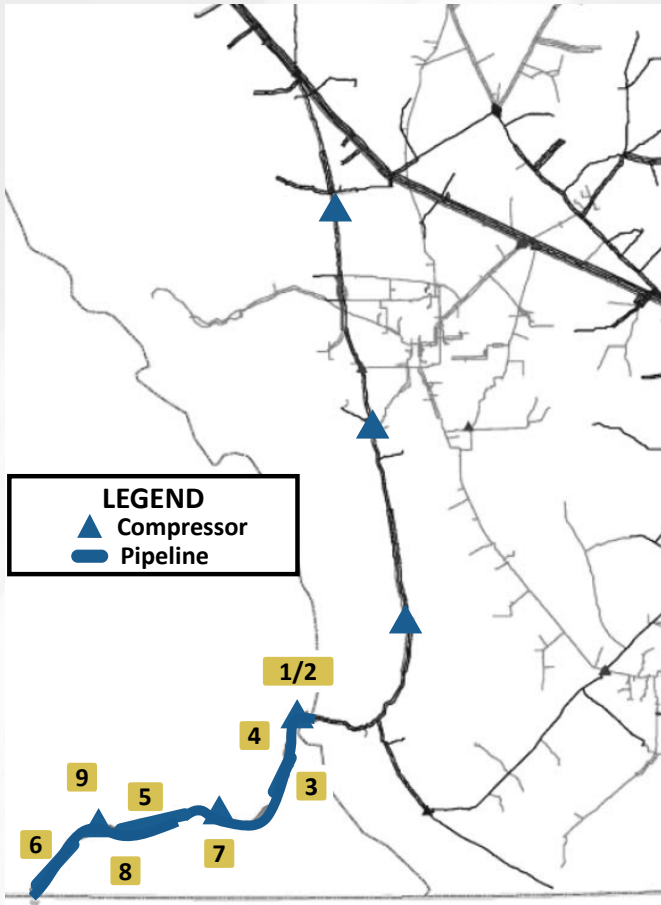


For informational purposes only

	No impact to FT	Potential impact to FT	Partial impact to FT	
Outage Description	Start	End	Capability/Allowable (10 <sup>3</sup> m <sup>3</sup> /d)	Capability/Allowable (MMcf/d)
<b>1. Burton Creek</b> Compressor Station Maintenance	4/5/2021	4/9/2021	65,000	2,295
<b>2. NPS 36 Western Alberta System Mainline</b> Pipeline Maintenance	4/19/2021	4/23/2021	72,000	2,545
<b>3. NPS 36 Foothills Pipeline Zone 7 Leg 1C</b> Pipeline Maintenance	4/25/2021	4/30/2021	73,000	2,580
<b>4. NPS 42 Western Alberta System Mainline Loop</b> Pipeline Maintenance	5/3/2021	5/7/2021	68,000	2,400
<b>5. NPS 36 Western Alberta System Mainline</b> Pipeline Maintenance	5/10/2021	5/14/2021	72,000	2,545
<b>6. Burton Creek A3</b> Compressor Station Maintenance	5/31/2021	6/3/2021	76,000	2,685
<b>7. Winchell Lake</b> Compressor Station Maintenance	6/7/2021	6/11/2021	65,000	2,295
<b>8. NPS 36 Western Alberta System Mainline Loop</b> Pipeline Maintenance	6/14/2021	6/18/2021	73,000	2,580
<b>9. NPS 42 Western Alberta System Mainline Loop</b> Pipeline Maintenance	7/20/2021	7/29/2021	69,000	2,435
<b>10. Turner Valley A1 and A2</b> Compressor Station Maintenance	8/23/2021	8/27/2021	73,000	2,580
<b>11. NPS 42 Western Alberta System Mainline Loop</b> Pipeline Maintenance	9/8/2021	9/15/2021	71,000	2,505
<b>12. NPS 36 Western Alberta System Mainline</b> Pipeline Maintenance	9/21/2021	9/26/2021	68,000	2,400

*Note: Outage information based upon currently available information and are subject to change. Please refer to the Daily Operating Plan (DOP) for the most current information.*

# NGTL/FH Outage Schedule - FHBC



No impact to FT

Potential impact to FT

Partial impact to FT

Outage Description	Start	End	Capacity/Allowable (10 <sup>3</sup> m <sup>3</sup> /d)	Capacity/Allowable (MMcf/d)
1. Crowsnest B Compressor Station Maintenance	3/29/2021	3/30/2021	75,000	2,650
2. Crowsnest A Compressor Station Maintenance	5/25/2021	5/28/2021	64,000	2,260
3. NPS 36 Foothills Pipeline Zone 8 Seg 2 Pipeline Maintenance	7/14/2021	7/19/2021	70,000	2,470
4. NPS 36 BC Mainline Pipeline Maintenance	8/4/2021	8/8/2021	65,000	2,295
5. NPS 36 Foothills Zone 8 Seg 3 Pipeline Maintenance	8/11/2021	8/15/2021	75,000	2,650
6. NPS 36 Foothills Zone 8 Seg 4 Pipeline Maintenance	8/18/2021	8/22/2021	73,000	2,580
7. Elko Compressor Station Maintenance	9/7/2021	9/8/2021	66,000	2,330
8. NPS 36 BC Mainline Pipeline Maintenance	9/16/2021	9/20/2021	71,000	2,505
9. Moyie Compressor Station Maintenance	10/4/2021	10/8/2021	66,000	2,330

*Note: Outage information based upon currently available information and are subject to change. Please refer to the Daily Operating Plan (DOP) for the most current information.*

For informational purposes only



Questions



Revenue	100.0
Expenses	(15.0)
Net Income	85.0
Operating Expenses	(10.0)
Net Operating Income	75.0
Interest Expense	(5.0)
Income Before Tax	70.0
Income Tax Expense	(10.0)
Net Income	60.0
Dividends	(10.0)
Retained Earnings	50.0
Assets	100.0
Liabilities	(40.0)
Equity	60.0

## Our purpose

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**Delivering the energy people  
need, every day.**

Safely. Responsibly. Collaboratively. With integrity.