

EPNG / Mojave 2019-20 Winter Preparedness

Kinder Morgan Western Region Pipelines October 31, 2019

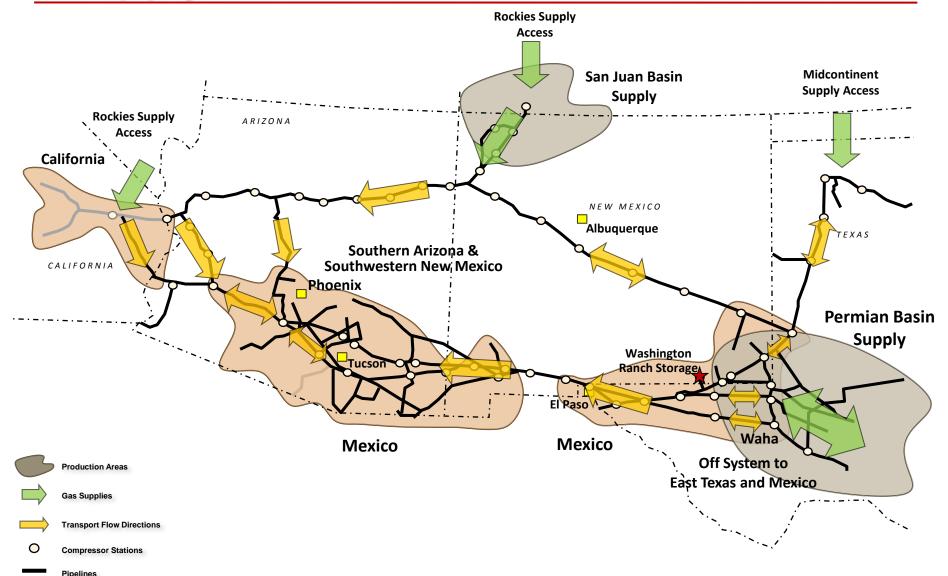
Agenda

- Operations Overview
- Emergency Communication
- Winter Preparedness Planning
- Maintenance Planning Process
- Remaining 2019 Planning Maintenance
- Gas Control Contacts

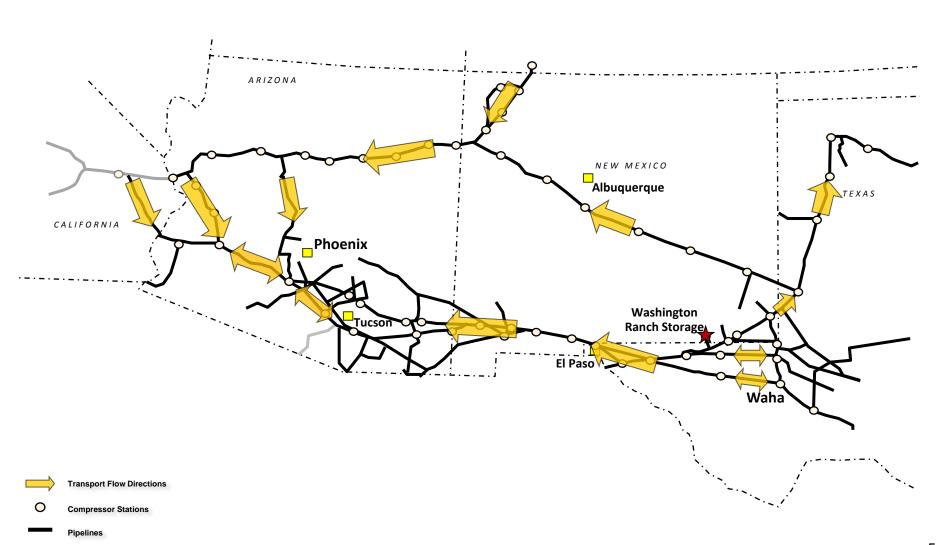


Operations Overview

EPNG System Overview Supply Locations and Flow Direction

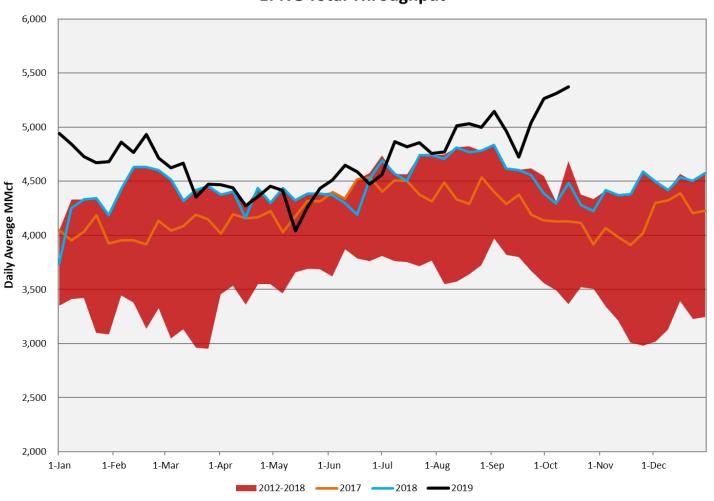


EPNG Operations Current Flow Direction



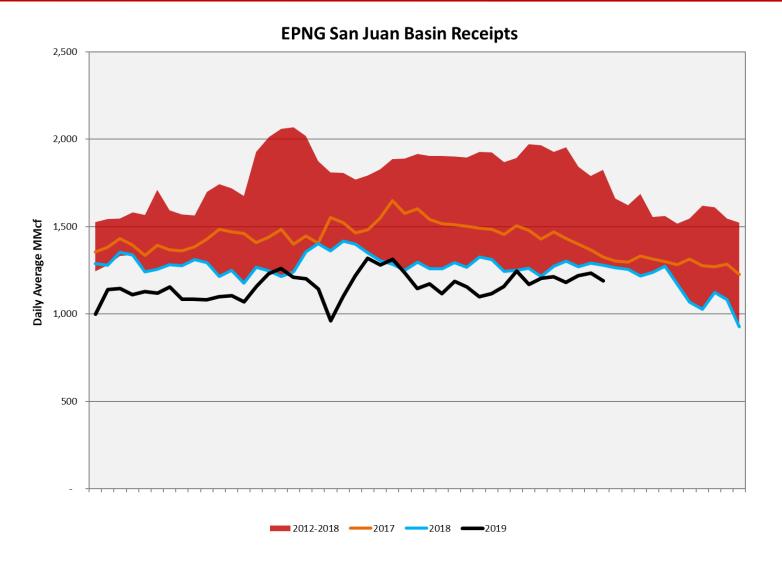
EPNG Total System 2012-2019 Throughput Trends (MMcf/d)

EPNG Total Throughput



San Juan Basin

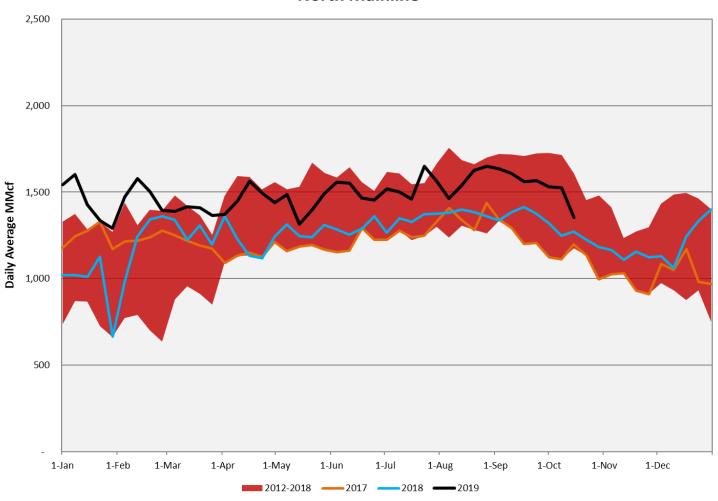
2012-2019 Throughput Trends (MMcf/d)



North Mainline

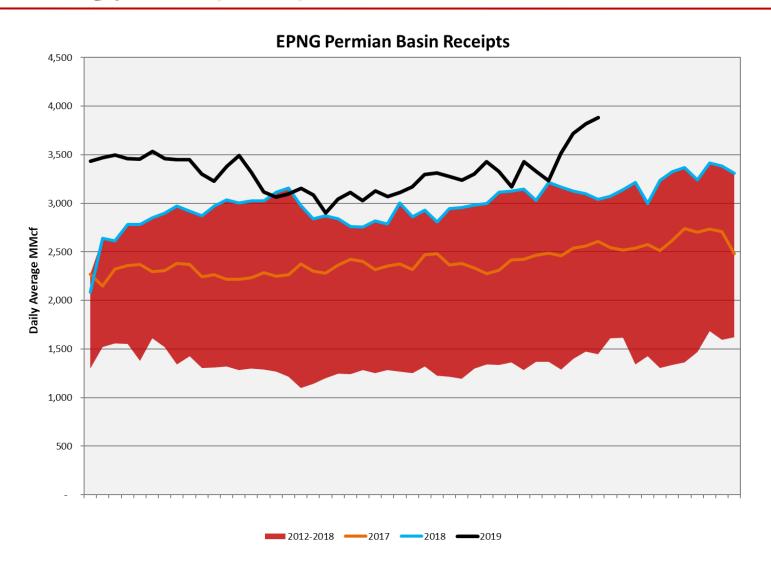
2012-2019 Throughput Trends (MMcf/d)

North Mainline



Permian Basin

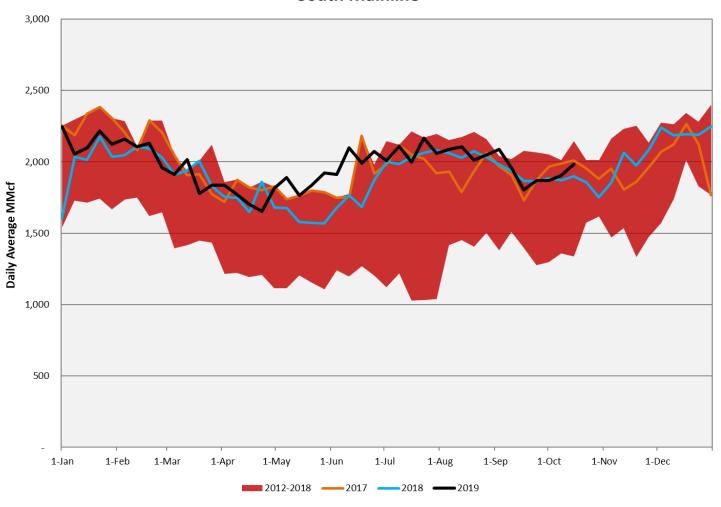
2012-2019 Throughput Trends (MMcf/d)



South Mainline

2012-2019 Throughput Trends (MMcf/d)

South Mainline



Emergency Communications (coc conditions)

- Shipper and Stakeholder Mass Communication
 - EBB Notices
 - Emails to shipper-maintained group email addresses
 - Telephone message sent by EPNG to emergency contacts
 - System Status Hotline (1-855-762-0100) parties can call for a recorded status of the system (updated as needed throughout an event)
- Standard critical notice to promote quicker action
- Banner on internet homepage to alert users to an emergency

Winter Preparedness Plans

- Staffing
 - Gas Control is 24 x 7 x 365.
 - Field technicians are on-site or on-call.
- Local Facility preparation (Begin about November 1st)
 - Vehicle inspections prepare vehicles for cold weather.
 - Two-Way Radio functional tests
 - Facility inspections with focus on weatherproofing.
 - Heat tracing, heat lamps, thermal blankets, etc.
 - Snow Removal Equipment Inspection (Where applicable)
 - Assessment of back-up power needs (existing stand-by generation and rental generators as deemed necessary).

Winter Preparedness Plans (Cont.)

Communication and Coordination

- Customer-specific winter preparedness meetings or communications.
- Monitor Weather Forecast.
- Conference Calls between Gas Control and Operations to discuss preparations.
- Shipper and Stakeholder Mass Communication via EBB notices and text messages.
- Shipper-Specific Communications.

Operational Response

- Multiple flow paths for supply to reach the market.
- Access to supply area storage: Washington Ranch, Keystone Gas Storage and Merchant Ranch Storage.
- EPNG has developed excellent working relationships with both affiliated and non-affiliated interconnecting pipelines which provide additional layers of contingency management in responding to emergency situations.



Maintenance Planning Process and Communication

Maintenance Planning Process

Annual Maintenance Planning Process

- July/August Process Begins
 - Review of annually recurring maintenance
 - Development of Pipeline Integrity project list for the next year.
 - Development of additional O&M and project related maintenance outages for the next year.

October

- Gas Control preliminary review.
- Project Planning Meeting with Project Engineering , Pipeline Engineering and Operations to review global schedule.

November

- Gas Control Review of Global Schedule .
- Operations meetings/concalls to resolve scheduling conflicts.
- Preliminary capacity impact analysis by System Design for larger outages.
- Approval of Annual Plan.

Communication to Customers

- December 15 Annual Plan for 1st Quarter posted to EBB.
- Mid-March Annual Plan updated for the remainder of the year posted to the EBB.

Maintenance Planning Process

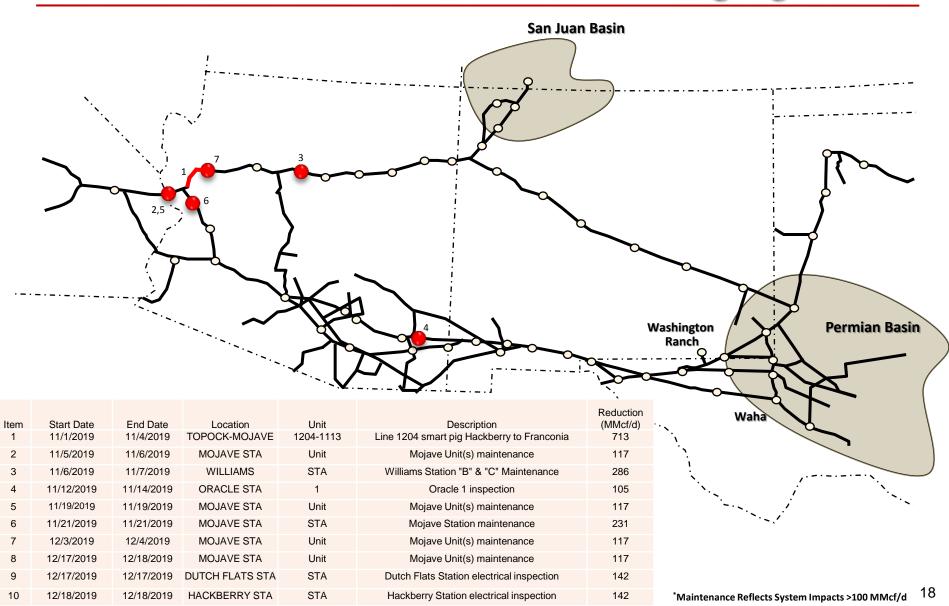
Communication to Customers (continued)

- Monthly Maintenance
 - Monthly schedule posted 9 business days before the following month.
 - Updated as required prior to and during the month.
- EBB
 - EPNG http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=EPNG
 - Mojave http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=MOPC
 - Sierrita http://pipeportal.kindermorgan.com/PortalUI/DefaultKM.aspx?TSP=SGP



Planned Maintenance Nov 2019 – Dec 2019

November - December Maintenance Highlights





Gas Control Contacts

Gas Control Contacts

- Russ Pyeatt Manager
 - (719) 520-3729 (office)
 - (505) 320-4556 (cell)
 - russ_pyeatt@kindermorgan.com
- Dan English Lead Controller
 - (719) 520-4722 (office)
 - (719) 659-3210 (cell)
 - dan_english@kindermorgan.com
- Vic Villalva Maintenance Planner
 - (719) 520-4251 (office)
 - (719) 482-6914 (cell)
 - vic_villalva@kindermorgan.com