

Natural Gas Pipeline Company of America LLC

Winter Scheduling 2018/19

Natural Gas Pipeline Company of America LLC

- This presentation is provided as general guidance, and reflects NGPL's view as of October 23, 2018, based upon current information and normal winter weather conditions. This information must not be relied on by shippers in making or confirming commercial transactions. Shippers are reminded to refer to individual postings of notices regarding scheduling restrictions and service availability on an ongoing basis, particularly during extreme weather conditions, and are encouraged to contact their account directors with any questions.
- NGPL schedules capacity in accordance with its FERC Gas Tariff.
- NGPL evaluates daily pipeline conditions to determine what, if any, limitations are required.

LINE PACK SERVICES

- Line pack services include LPS/IBS
 - NGPL’s SRO program is under the LPS Rate Schedule
- “Off the pipe” activity is anticipated to be limited to MDQ
- “On the pipe” activity is anticipated to be allowed to exceed MDQ
- Dependent on weather and system usage, NGPL may not allow Line Pack Services “OFF” the pipe.

STORAGE SERVICES

- Injections
 - For both Amarillo and Gulf Coast leg storage services, up to or above MDQ anticipated

- Withdrawals
 - For both Amarillo and Gulf Coast leg storage services, up to WQ anticipated

TRANSPORTS for Storage

- It is anticipated that NGLP will require “In-Path” transport associated with Storage Withdrawals on both the Amarillo and Gulf Coast legs
- For injections, “In-Path” not normally required during winter on either leg and NGLP anticipates the same for this winter.

LOCATION (LOC) Scheduling

- NGPL monitors all receipt (REC) and delivery (DEL) locations to insure that physical flow is consistent with nominated activity and applicable no-notice rights.
- Any REC LOC underperforming may be posted as “Location Off Rate” (LOR) with nominations scheduled down to match flow. NGPL attempts to make LOR scheduling cuts in the ID1 or ID2 cycle, but if causing system problems ID3 cuts may be required.
- For DEL LOC taking at a daily or hourly rate in excess of nominations plus no-notice rights, a LOC specific Operational Flow Order (OFO) may be posted.
- DEL LOCs need to have nominations in place prior to flowing.

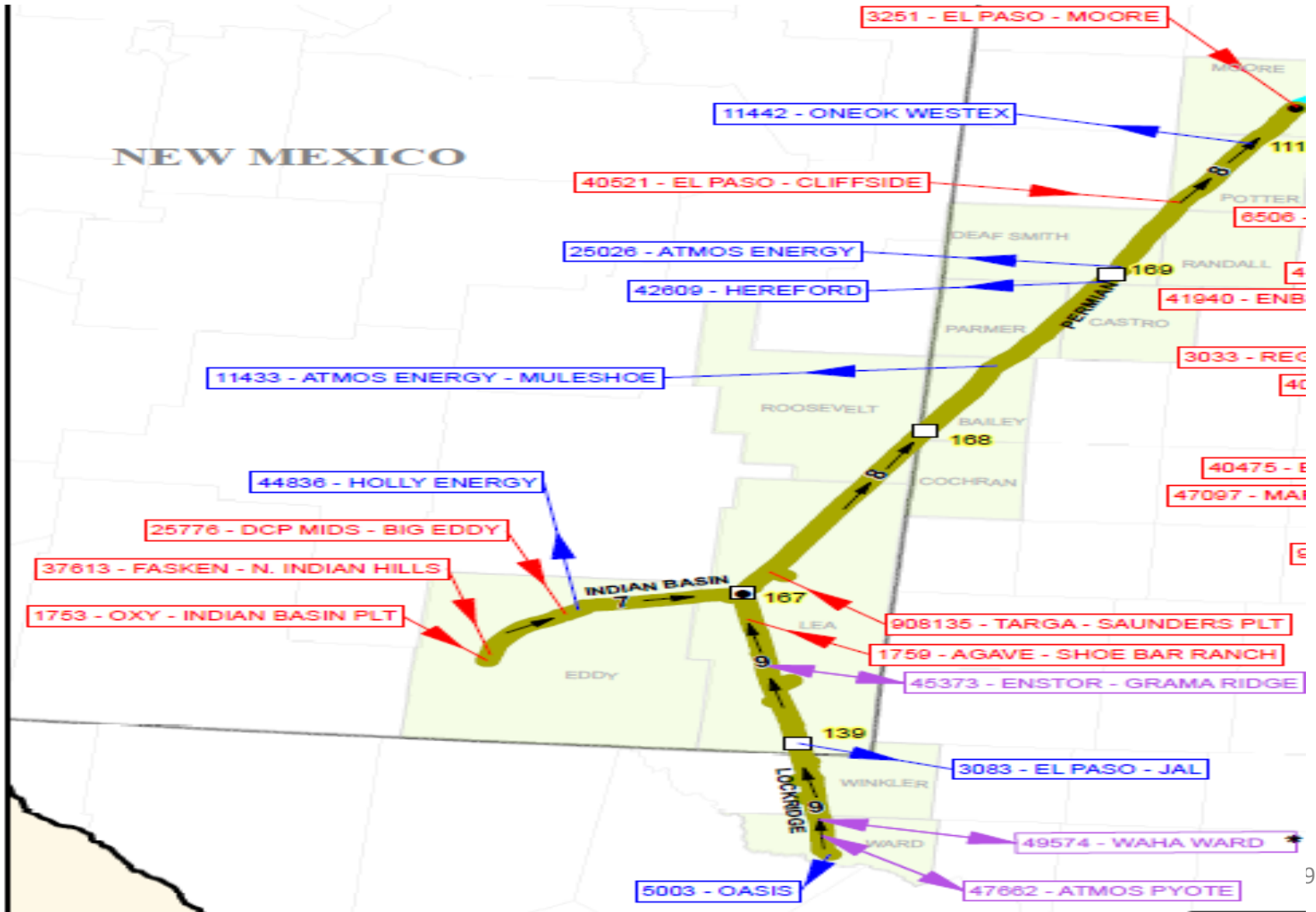
AFFECTED AREA (AA) LOCATIONS

- NGPL may schedule segments as a group:
 - AA – Segments 2, 5, and 6
 - AA – Segments 3, 4
 - AA – Segment 10
- It is anticipated that NGPL will Schedule Primary Services Only for Segments 2, 5, and 6 and Segments 3, 4.
- LOCs in the AA may be individually scheduled if a “LOR” is posted.

SEGMENT SCHEDULING

- NGPL reviews all segments each cycle to determine which segments are required to be scheduled.
- NGPL posts daily updates when a segment has limited capacity, is over capacity, or has capacity become available.
 - This information can also be found on the Current Pipeline Conditions posting (CPC) which NGPL posts Monday through Friday

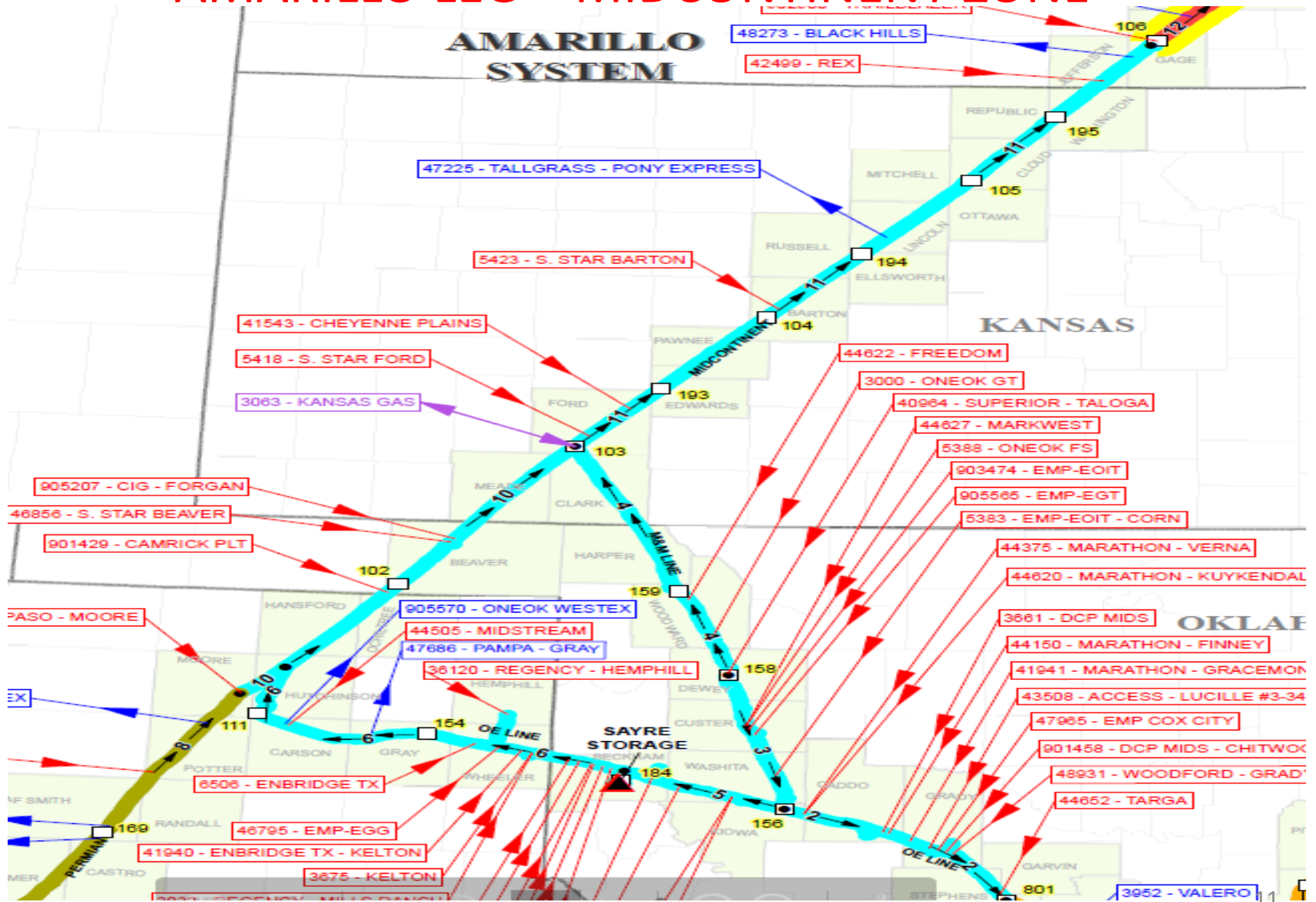
AMARILLO LEG – PERMIAN ZONE



AMARILLO LEG – PERMIAN ZONE

- Northbound flow is scheduled at the north end of Segment 8 when making “Over Capacity” scheduling reductions for Permian Zone.
- NGPL is sold out for northbound capacity.
- It is anticipated that Segment 8 will remain as “Primary Only” for northbound transports.

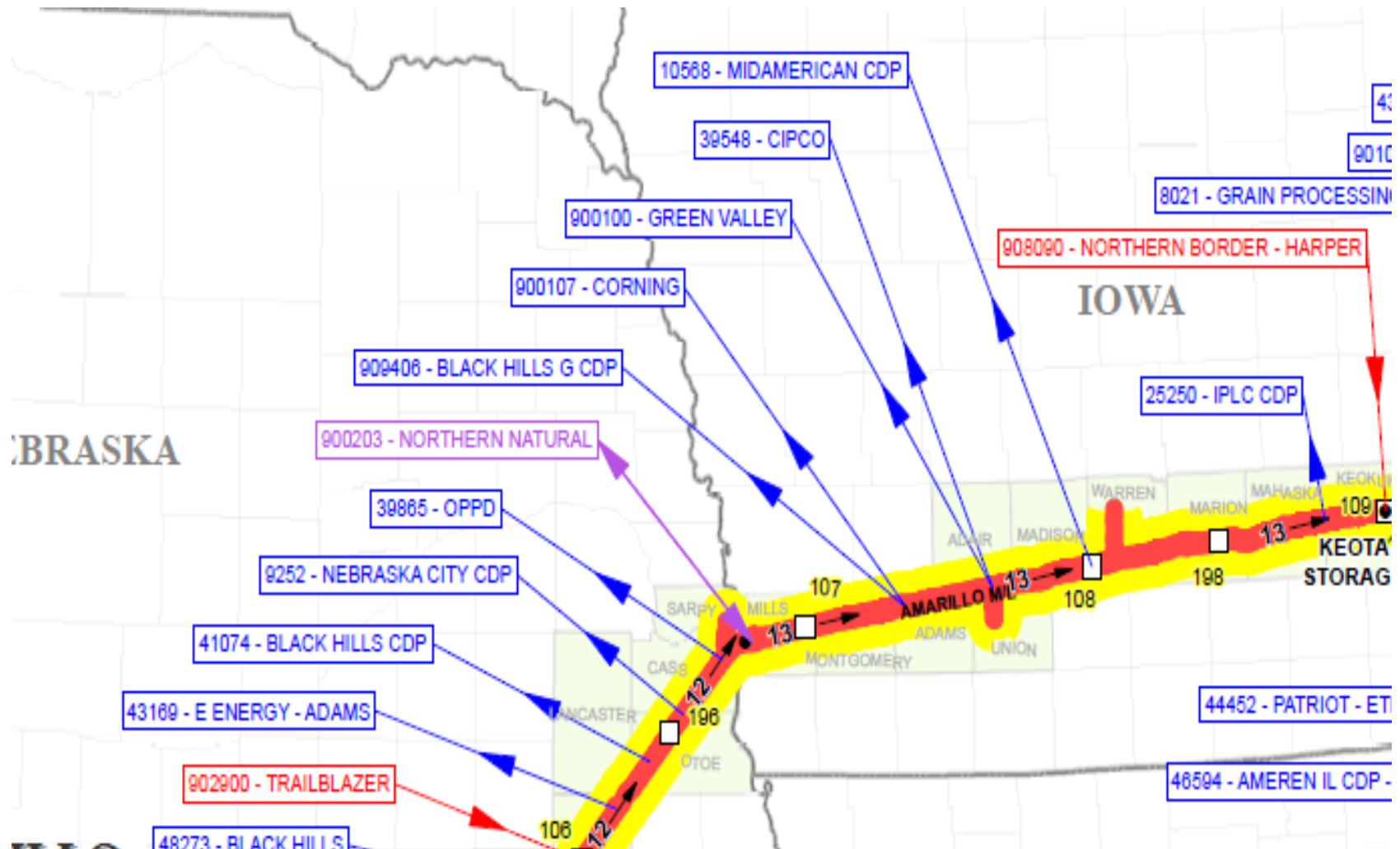
AMARILLO LEG – MIDCONTINENT ZONE



AMARILLO LEG – MIDCONTINENT ZONE

- The Midcontinent Zone is a major supply area on the Amarillo Leg.
- All three of NGPL's AA's are in the Midcontinent Zone.
- Segment 11 is scheduled at Compressor Station 106 at the north end of the segment, when making "Over Capacity" scheduling reductions.
- NGPL is sold out for northbound capacity.
- NGPL anticipates that Segment 11 will remain as "Primary Only" for northbound transports.

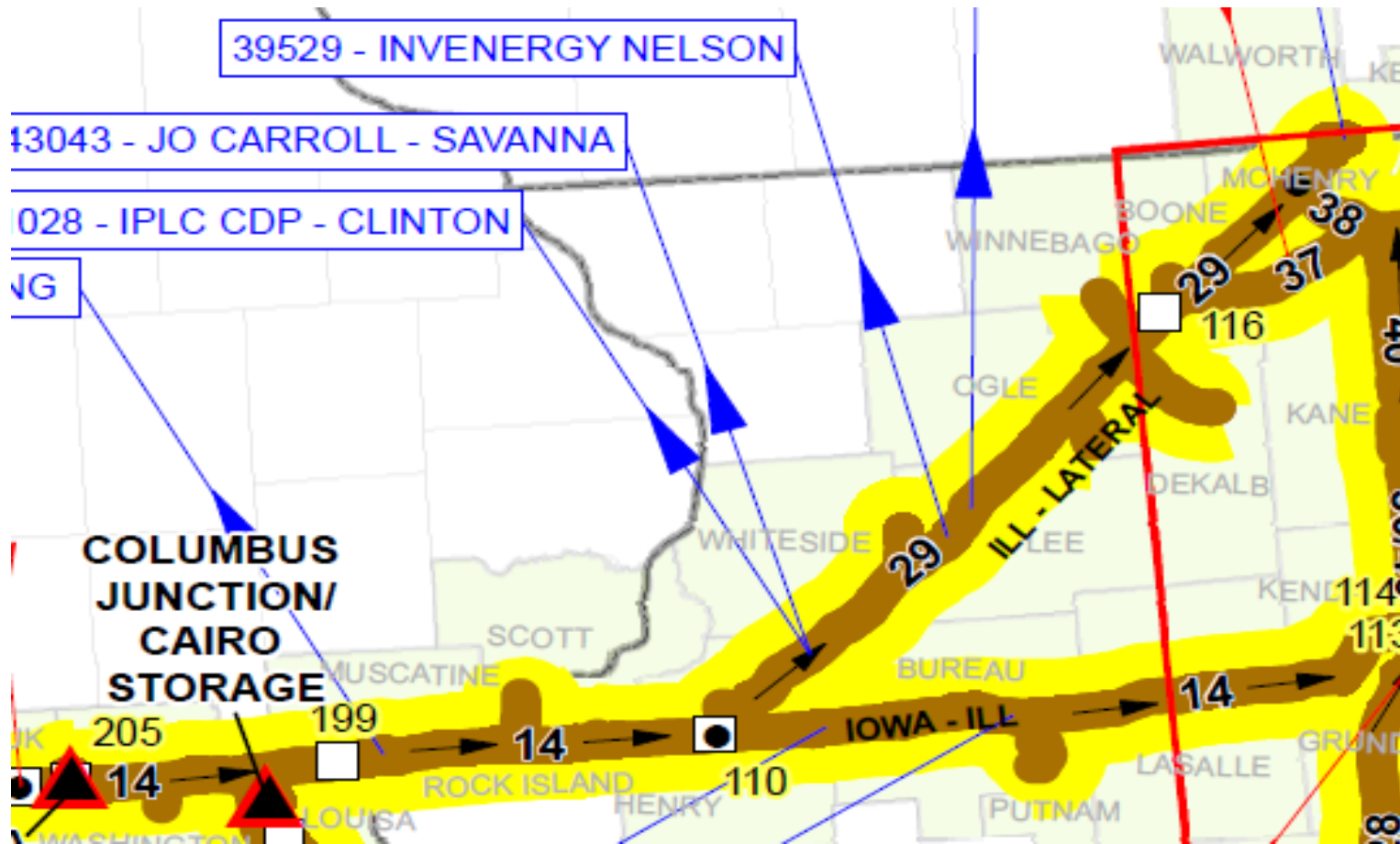
AMARILLO LEG – AMARILLO M/L ZONE



AMARILLO LEG – AMARILLO M/L ZONE

- NGPL is sold out for eastbound capacity.
- Based on expected utilization, NGPL anticipates that all transport services, firm and interruptible, will remain available.
- Secondary and ITS services are at risk if “Over Capacity”.

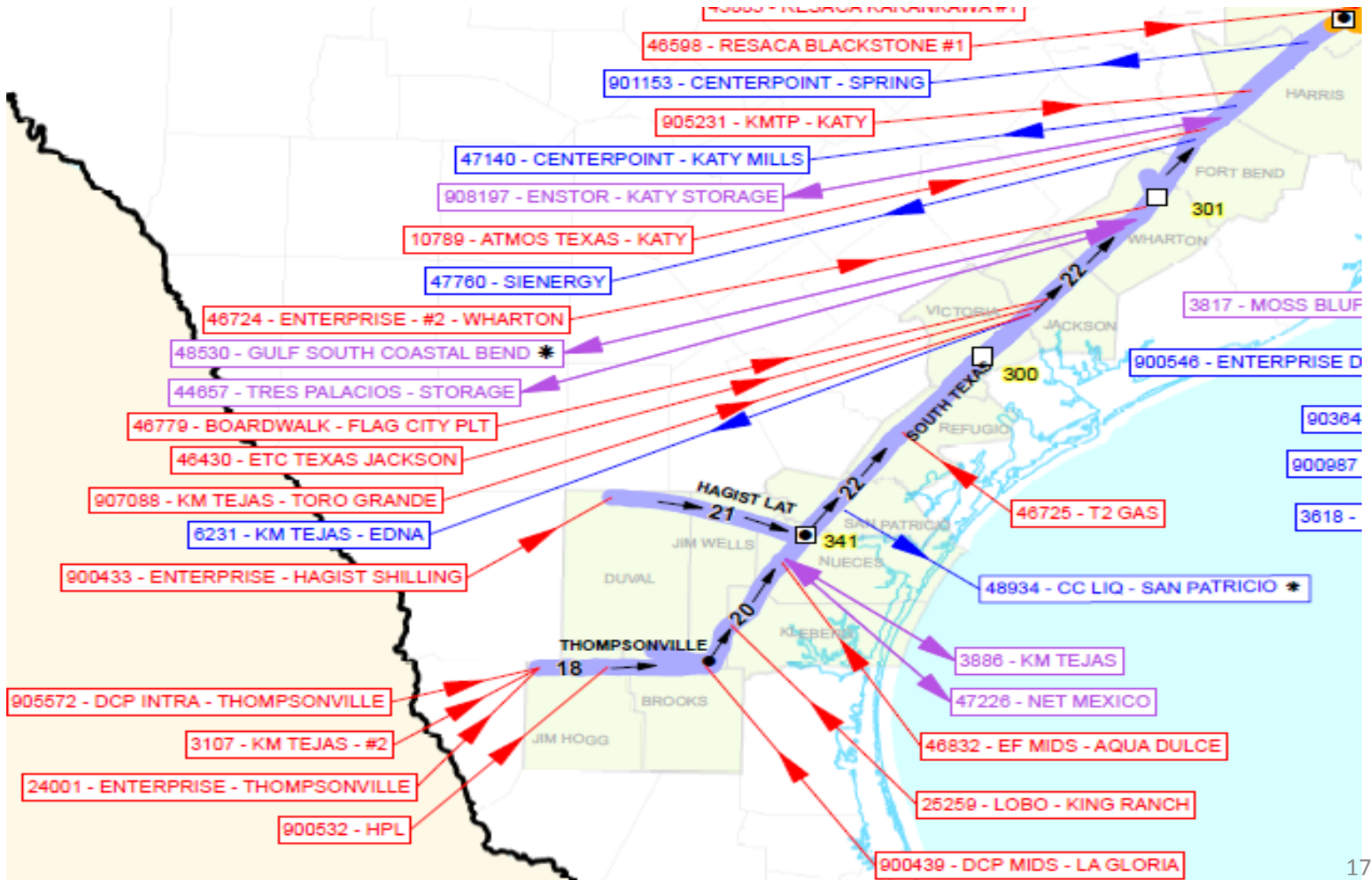
AMARILLO LEG – IA-IL ZONE



AMARILLO LEG – IA-IL ZONE

- Based on expected utilization, NGPL anticipates that all Transport services, firm and interruptible, will remain available.
- Secondary and ITS services are at risk if “Over Capacity”.
- Segment 14 backhauls are anticipated to be at “Primary Only”.

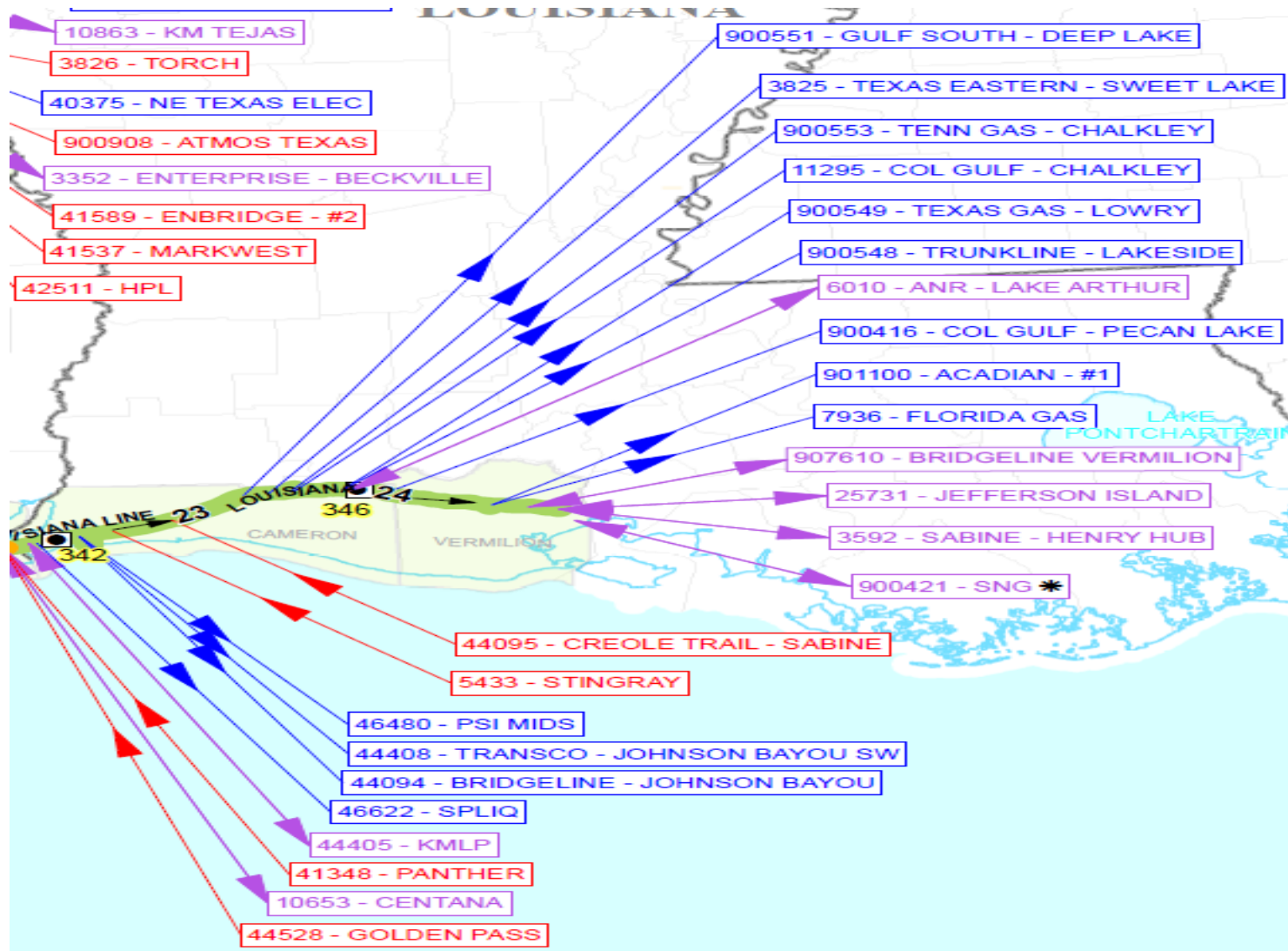
GULF COAST LEG – SOUTH TEXAS ZONE



GULF COAST LEG – SOUTH TEXAS ZONE

- NGPL has northbound capacity available.
- NGPL is sold out for southbound capacity.
- It is anticipated that southbound flow into Segment 22 will be at “Primary Only”, dependent on level of shipper activity.
- All Transport services within the South Texas Zone are anticipated to be available.

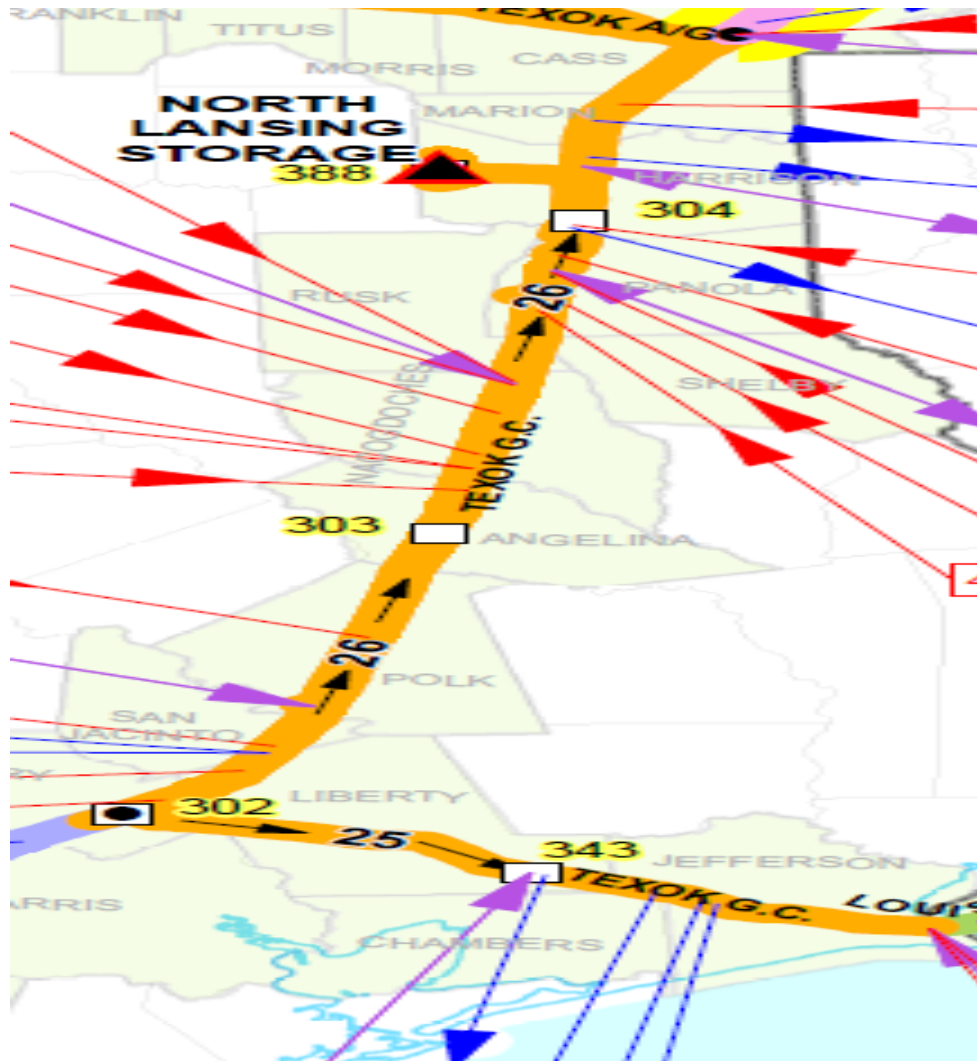
GULF COAST LEG – LOUISIANA ZONE



GULF COAST LEG – LOUISIANA ZONE

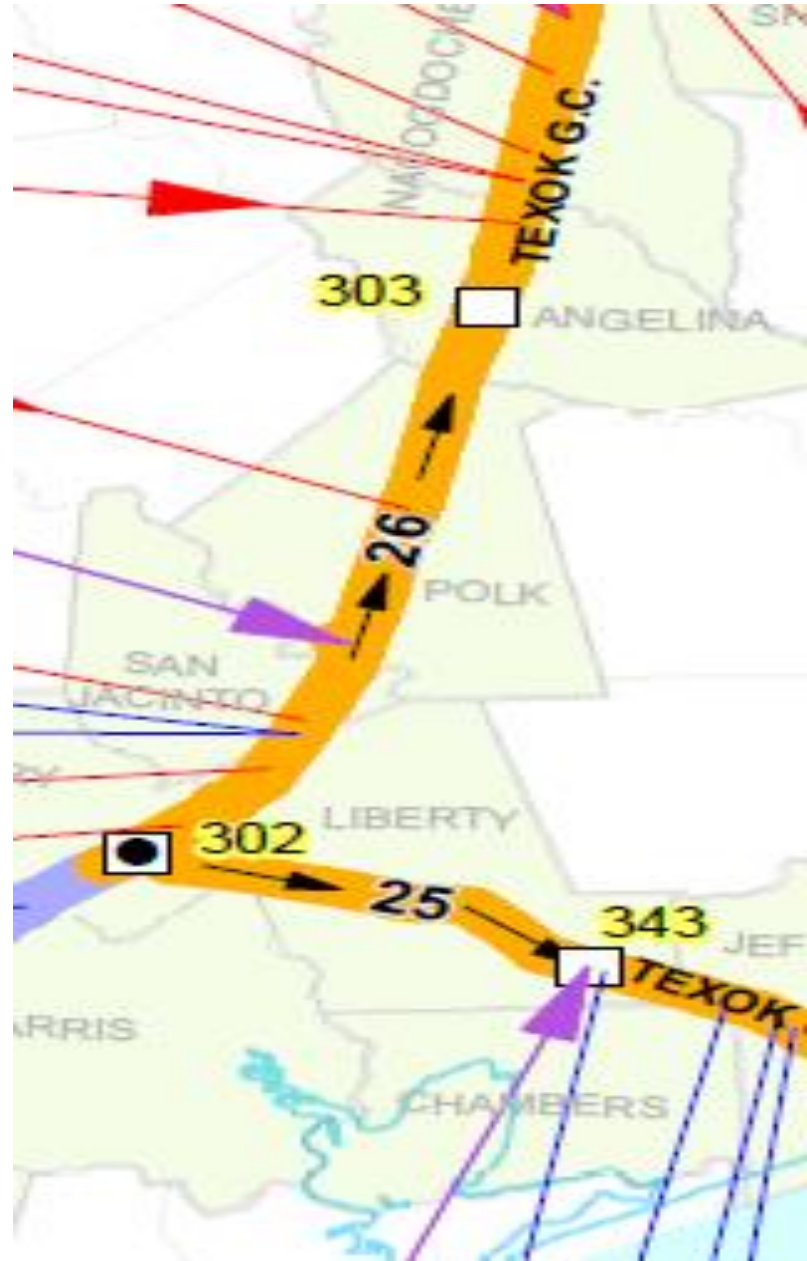
- NGPL has both eastbound and westbound capacity available in both segments of the Louisiana Zone.
- It is anticipated that all transport services will remain available.
- REC LOC's in Louisiana Zone are available if eastbound flow into Segment 25 is restricted or at Capacity.

GULF COAST LEG – TEXOK ZONE - GULF COAST



GULF COAST LEG – TEXOK ZONE - GULF COAST

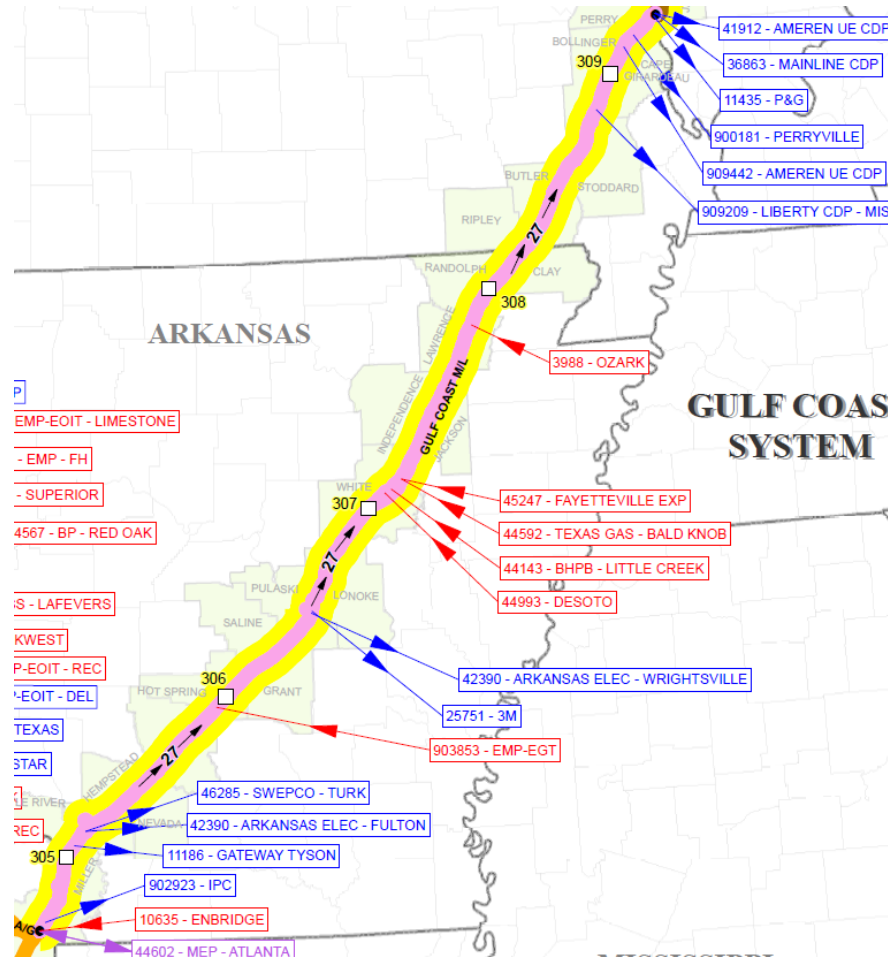
- Segment 26 southbound, through compressor station 302, is sold out.
- Secondary and interruptible services may be at risk, dependent on the level of Shipper activity.



GULF COAST LEG – TEXOK ZONE - A/G LINE

- Segment 17 eastbound flow is nearly sold out. NGPL anticipates that all transports services will be available.
- Depending on the level of Shipper activity secondary and interruptible services may be at risk.
- Eastbound capacity into Segment 15 through compressor station 801 is sold out, which is anticipated to remain at “Primary Only”.
- It is anticipated that Segment 15 westbound flow through compressor station 801 will be at “Primary Only”.

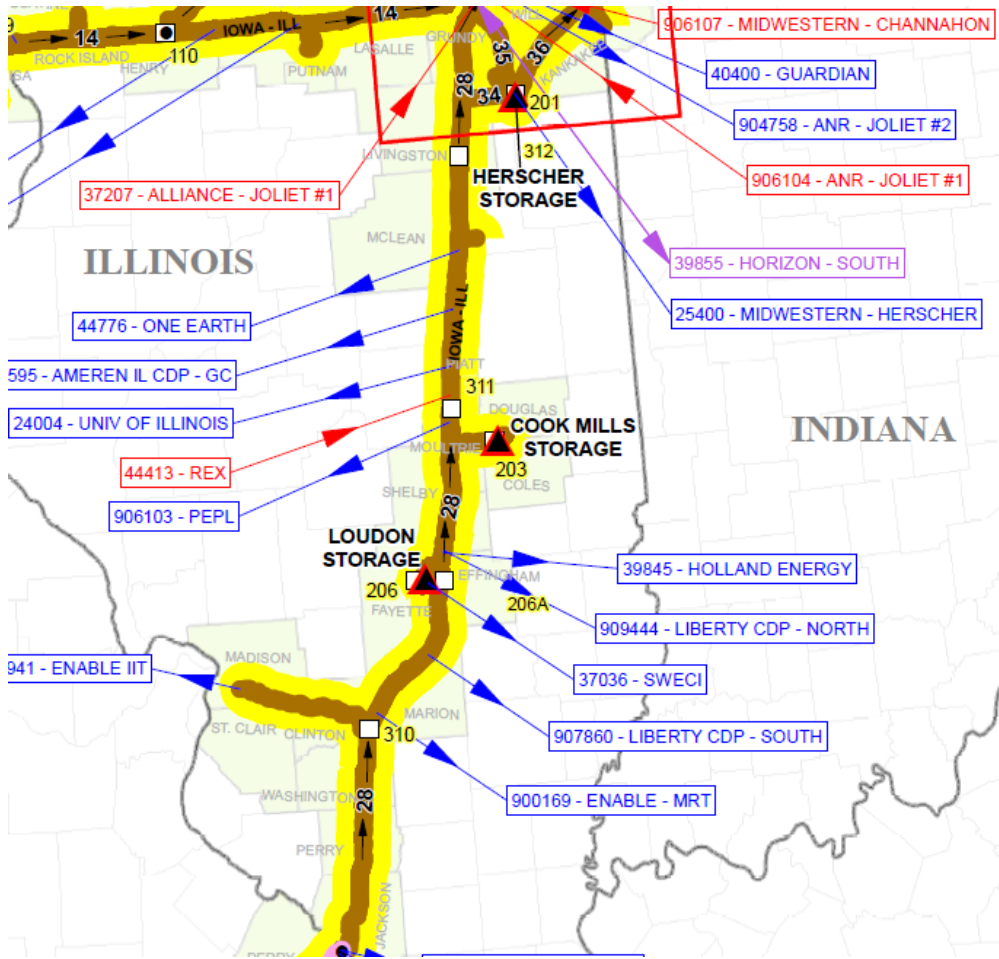
GULF COAST LEG – GULF COAST M/L ZONE



GULF COAST LEG – GULF COAST M/L ZONE

- Segment 27 southbound capacity into TEXOK Zone is nearly sold out.
- NGPL anticipates that all southbound transport services will be available to shippers. Dependent on level of shipper activity Secondary and interruptible services may be at risk.
- Northbound flow from Segment 27, into the Gulf Coast Iowa-ILL Zone, is anticipated to be available for all transport services.

GULF COAST LEG – IOWA-ILL ZONE



GULF COAST LEG – IOWA-ILL ZONE

- NGPL anticipates that all transport services will be available for Segment 28 northbound and southbound flows. Dependent on level of shipper activity, secondary and interruptible services may be at risk.
- SEG 33/36 is anticipated to be at capacity, secondary and interruptible services may be at risk.

Market Area Receipt Locations

- Certain Amarillo and Gulf Coast leg receipt LOCs in the Iowa-Illinois Zone are available.
- Transport services are generally available from the following receipt LOCs:
 - LOC 37207 ALLIANCE - JOLIET
 - LOC 44413 REX MOULTRIE
 - LOC 908090 N BORDER HARPER
 - LOC 906104 ANR JOLIET
 - LOC 906107 MIDWESTERN CHANNAHON

MAINTENANCE

- NGPL attempts to complete planned maintenance prior to winter months.
- **Shippers should monitor NGPL's internet website (EBB) daily for any postings for unplanned maintenance or Force Majeure events that may arise.**

UPCOMING MAINTENANCE

- **SEGMENT 13 - AMARILLO #3 MAINLINE – ILI TOOL RUN**
- Natural will perform an additional ILI tool run on the Amarillo #3 mainline between Compressor Station 108 (CS 108) located in Warren County, Iowa and Compressor Station 109 (CS 109) located in Keokuk County, Iowa (Segment 13 of Natural's Amarillo Mainline Zone). As a result, Natural is required to temporarily reduce the maximum operating capacity in the affected area. This restriction will limit Natural's throughput capacity eastbound through CS 108.
- The scheduling constraint will be at CS 108; therefore, any gas received west of CS 108 for delivery east of CS 108 will be impacted for the duration of this restriction. For scheduling purposes, the Amarillo Mainline Pool (LOC 10566) is located west (upstream) of the constraint. Firm transportation nominated from receipt points west of CS 108 (including the Amarillo Mainline Pool) for injection at any Amarillo storage point will be impacted. The MidAmerican delivery point (LOC 10568) is located east of CS 108 and will also be impacted.
- Points Not Impacted: Receipt points that are nominated west of CS 108 for deliveries to Northern Natural (LOC 900203), Black Hills (LOC 909406), Corning (LOC 900107) and Green Valley (LOC 900100) will not be impacted during this restriction. The Northern Border (LOC 908090) receipt point, as well as any other supply points downstream (east) of CS 108, will also be available.
- **As such, effective for gas day Tuesday, November 6, 2018, Timely Cycle, and continuing through gas day Wednesday, November 7, 2018, Natural will schedule Primary Firm and Secondary in-path Firm transports to no less than 50% of contract MDQ through CS 108. Actual nomination levels and changes in pipeline conditions could result in changes to the percentages scheduled (lower or higher) on subsequent gas days. AOR/ITS and Secondary out-of-path Firm transports will not be available.**
- The stated scheduling percentage is based upon the current level of firm capacity contracted for during this restriction and is subject to change based upon operational conditions and Shipper utilization. Continue to monitor Natural's interactive website for any updates to the end date and/or scheduling percentages during this restriction.

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CONTACT INFO

- NGPL maintains a Scheduling Hotline that is monitored daily from 8:00 AM to 10:00 PM. If in need of nomination or confirmation help, especially after hours, holidays, and on weekends, please call the following number for assistance:

(713) 369-9683