



ANR Monthly Customer Update

February 2019





Safety Moment

Distracted Walking

Since 2010, the distractive use of cellphones have been identified as an increased cause of death for pedestrians while walking.

One study found people who were texting while crossing a street:

- took almost two extra seconds to cross, which is 18 percent slower than average.
- 3.9 times more likely to display an unsafe crossing behavior.

How to Avoid

- Don't wear headphones while walking
- Be aware of your surroundings
- Put it away



Agenda

Storage Update

Jeff Keck, Operations Planning

Operational Update

Al DeGrazia Jr., Gas Control & Planning

Noms & Scheduling

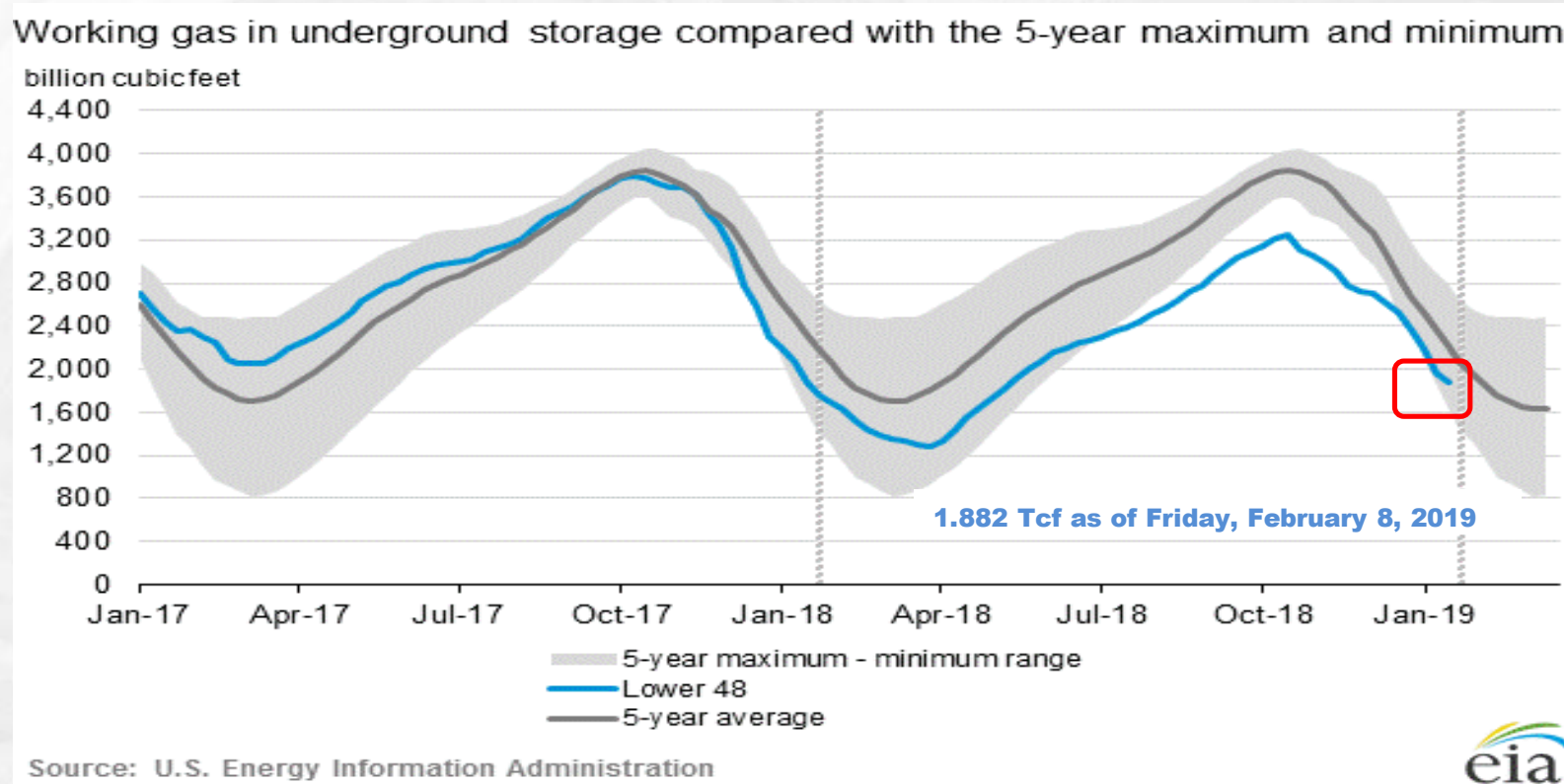
DeAnna Parsell, Noms & Scheduling





Jeff Keck, Operations Planning

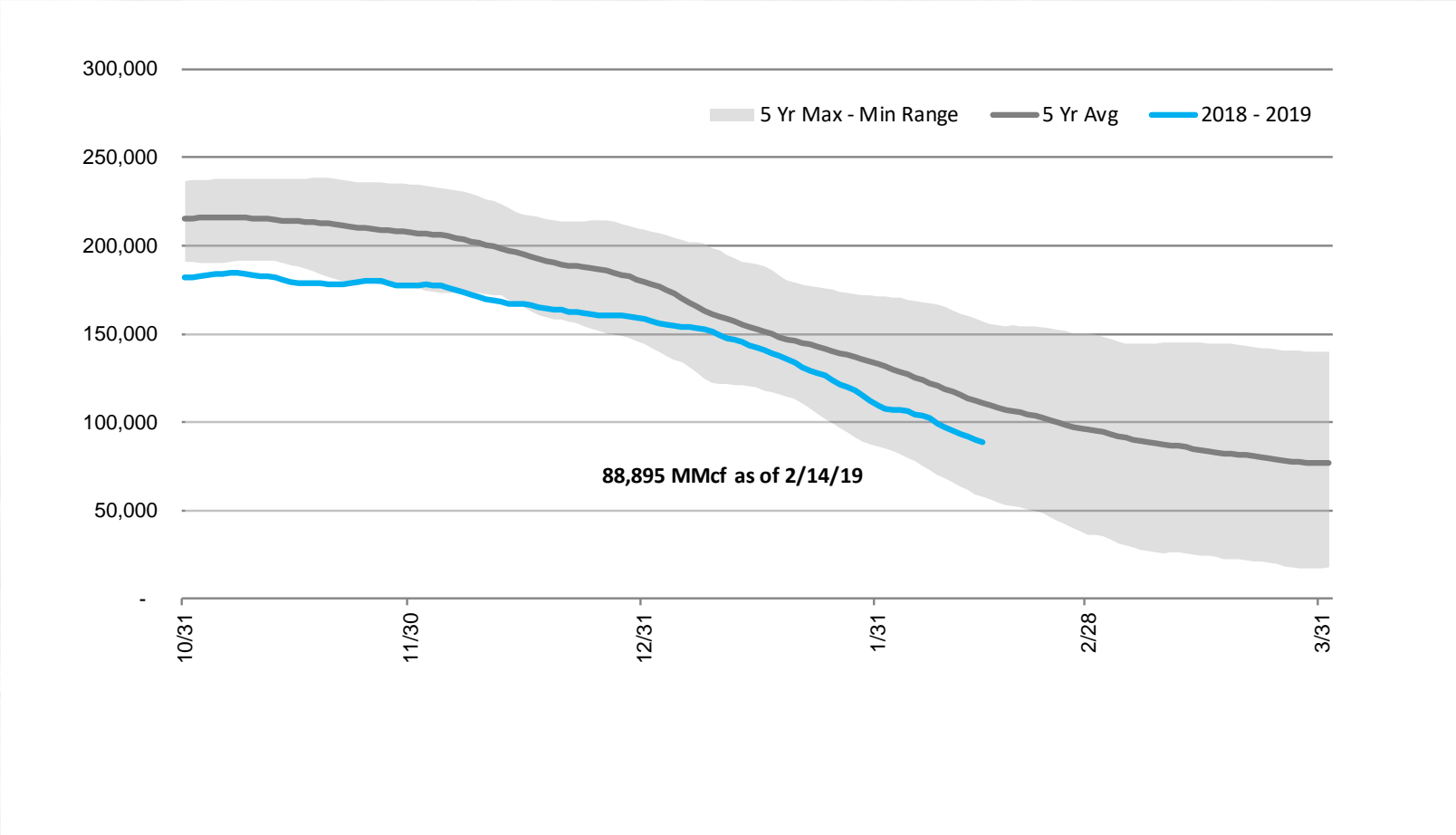
EIA Storage – The Big Picture



DATE	ANR's Reported EIA Storage Inventory (MMcf)
2/8/2019	97,278
2/9/2018	95,953
2/10/2017	145,176

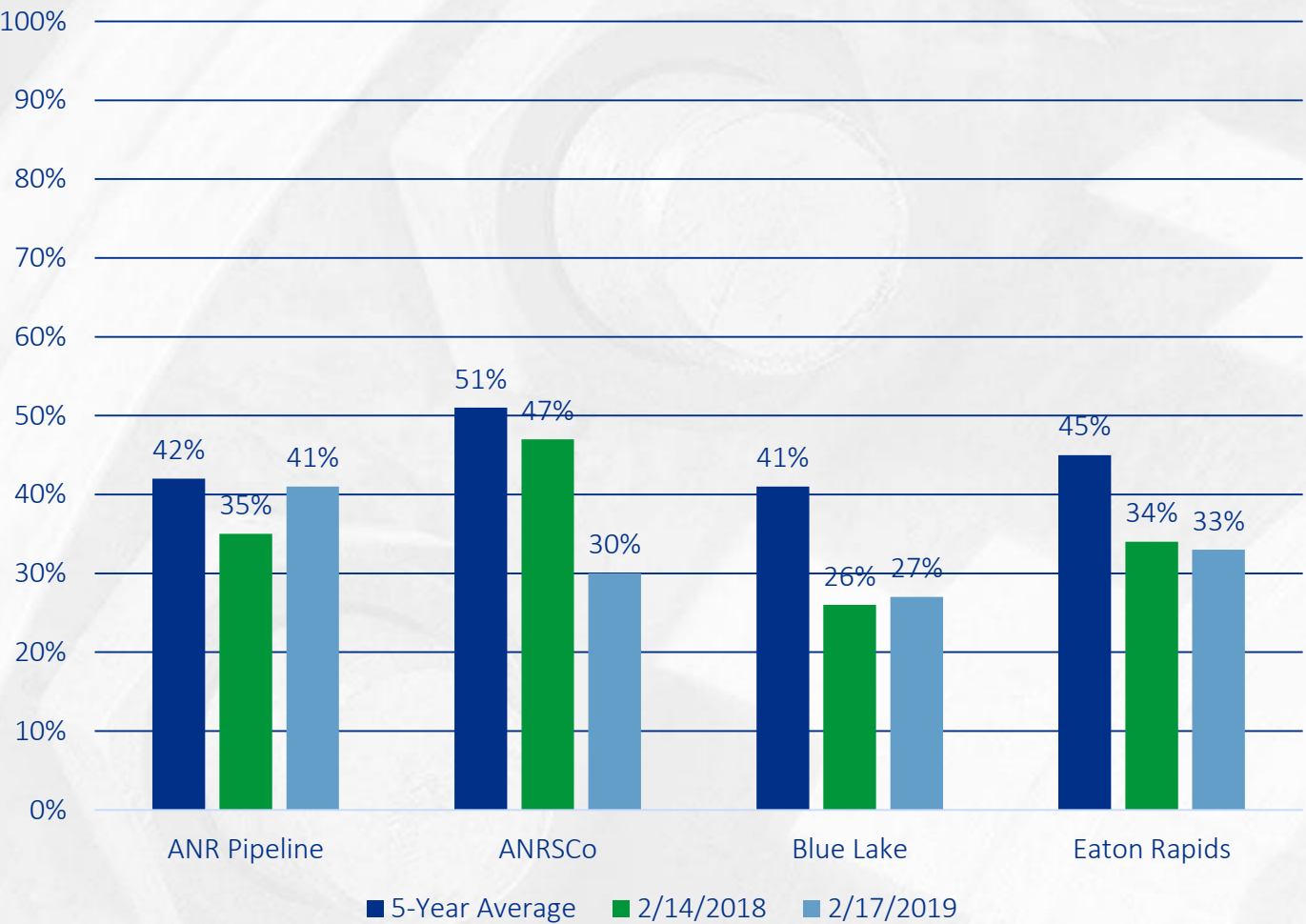
Storage Position

Working gas in underground storage compared with the 5-year maximum and minimum
(Volumes in MMcf)

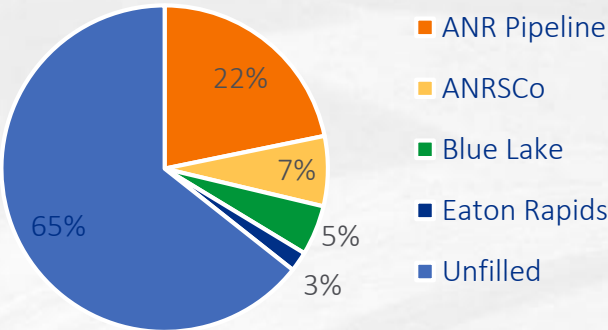


Storage Inventory – 2019 vs 2018

Physical Inventory Positions as of February 14



Percent of Certificated Storage Capacity



Percent of Storage Capacity	2018 Percent Full	YOY Difference (2018 – 2019) February 14th
ANR Pipeline	41%	5.3%
ANRSCo	30%	-17.0%
Blue Lake	27%	1.1%
Eaton Rapids	33%	-1.1%

Storage Operations

- The current volume in storage is below the five year average level by about 20-Bcf. It is still well above the previous 5-year minimum.
- From January 17th through February 14th storage activity averaged a withdrawal of about 1.8-Bcf/d. There have been significant swings due to weather. This has caused withdrawal as low as 0.2-Bcf/d and as high as 3.0-Bcf/d.
- ANR met all firm customer demand for injection & withdrawal during this period.
- Capacity is 35% full after 3-1/2 months of the winter season.
- Normal weather is projected over the next week with the potential for one more cold shot the first week of March. Preparations for summer injections will begin after this last cold spell.



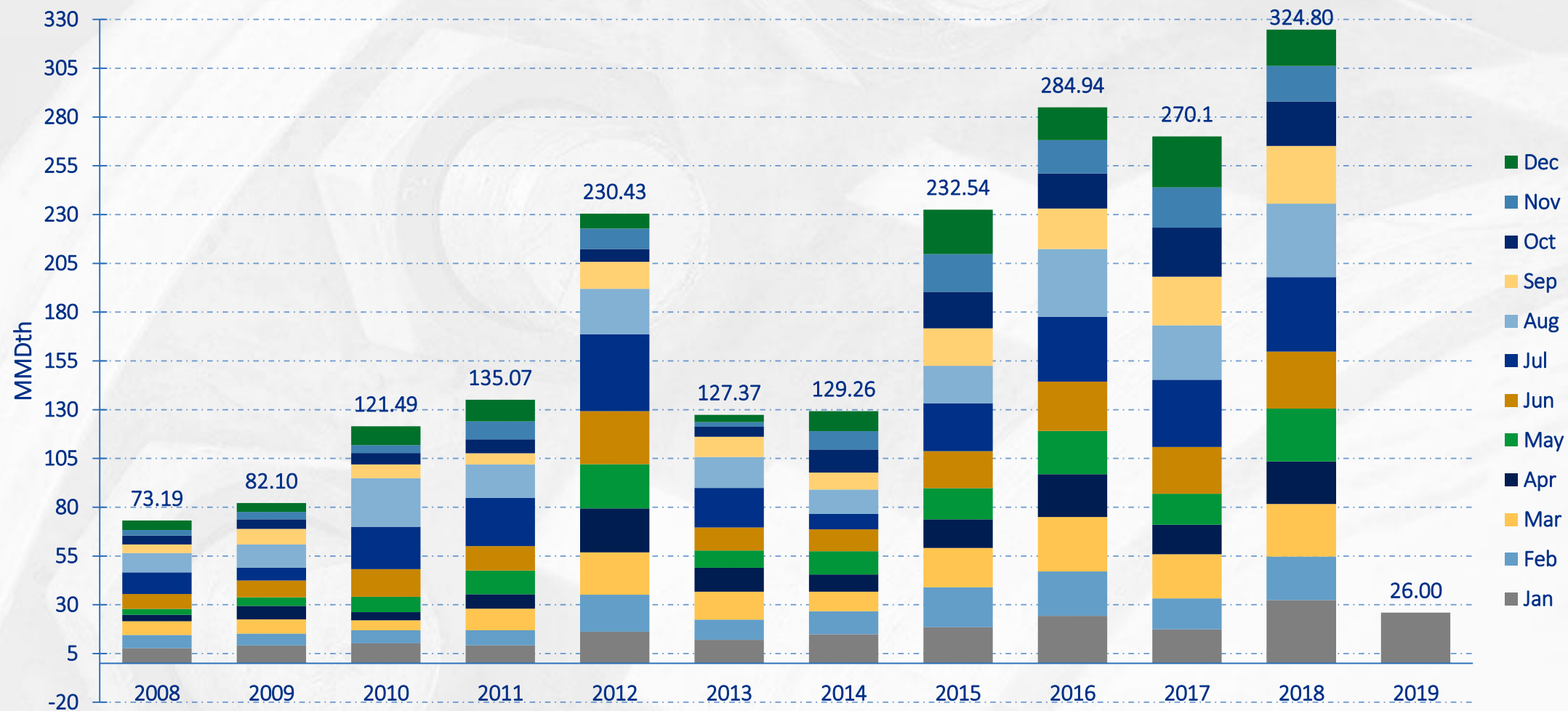
Al DeGrazia Jr., Gas Control & Planning

ANR January Average Daily System Flows

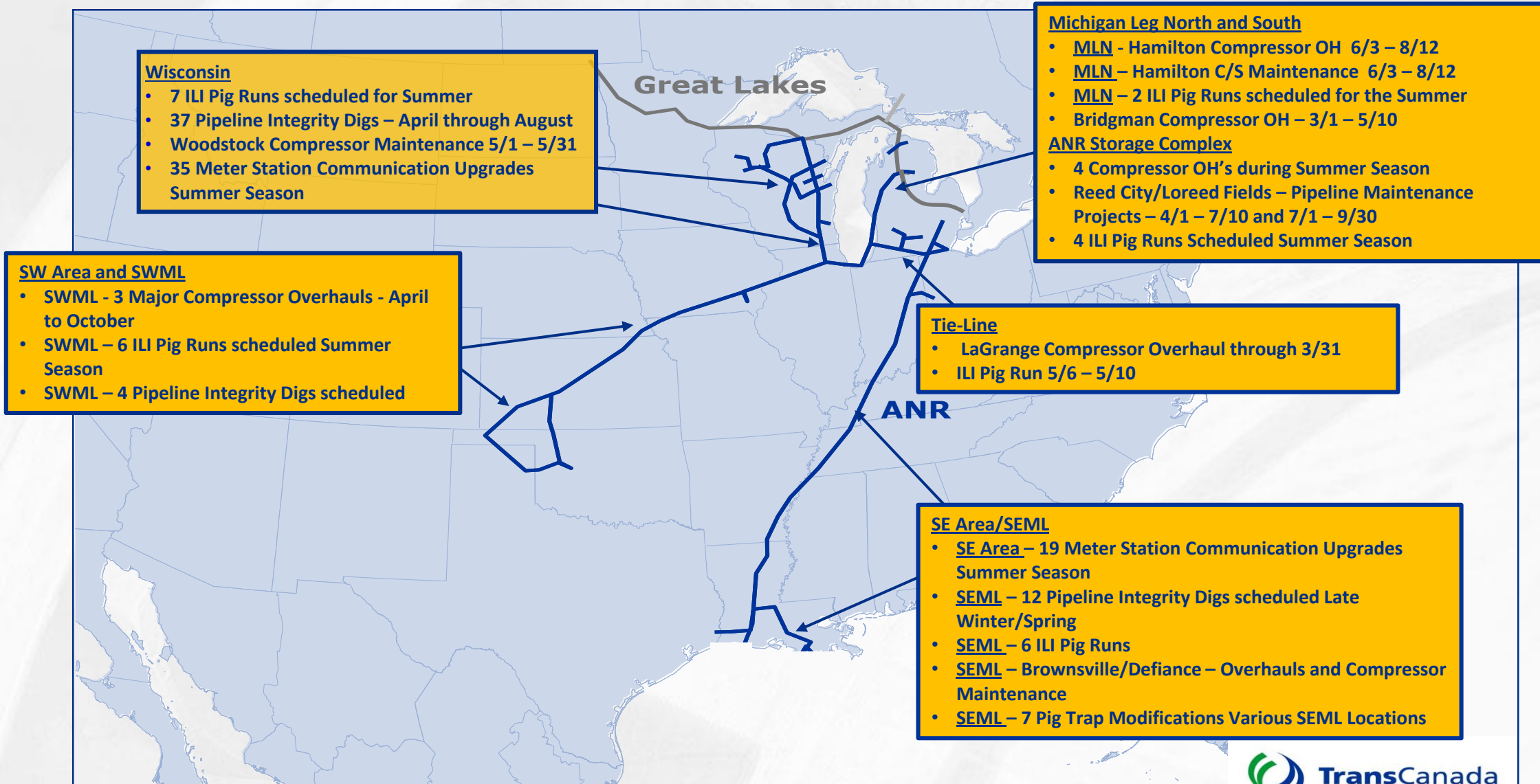


- 1 SWML Northbound: 620-MDth/d
- 2 Wisconsin deliveries: 1,624-MDth/d
- 3 Michigan Leg South flows through St. John averaged 539-MDth per day in the westbound direction
- 4 The Woolfolk Southbound location averaged 1,403-MDth withdrawal southbound
- 5 ANRPL Storage withdrawals averaged 1,398-MDth/d. This does not include Storage Company, Blue Lake, or Eaton Rapids third party activity.
- 6 In the Southeast Area, offshore receipts at Patterson averaged 258-MDth/d and deliveries averaged 916-MDth/d between Eunice and Patterson and Eunice and Grand Chenier
- 7 Flows along the south end of the Southeast Mainline averaged 961-MDth/d southbound through the Jena Compressor Station.
- 8 On the north end of the Southeast Mainline, REX Shelbyville receipts averaged 544-MDth/d. Flows southbound through Defiance averaged 684-MDth/d. Westrick Interconnect averaged 1,289-MDth/d
- 9 Deliveries to MichCon at Willow Run averaged 212-MDth/d

ANR Monthly Deliveries to Power Plants



2019 ANR Mainline Maintenance Projects



ANR Posted Capacity Impacts February 2019

Eunice Total Delivery Point Capacity (LOC #505592) CN ID #9056

Scheduling 1000-MMcf/d 1/28 – 2/19

Eunice Eastbound Capacity (LOC #99505489) PSO ID #9071

40-MMcf/d (leaving 548-MMcf/d available) 2/1 - 3/31

Cottage Grove Southbound Capacity (LOC #505614) PSO ID #9061

325-MMcf/d (leaving 900-MMcf/d available) 2/20 – 2/28

Grand Chenier LRC (LOC #7695) CN ID #8999

Scheduling Firm Primary only nominations 12/14 – 3/31

St. Martinville E TO LRC (LOC #218192) PSO ID #9083

Scheduling Firm Primary only nominations 2/21 – 2/22

Southwest Mainline – DRN #226630 PSO ID # 9093

20-MMcf/d (leaving 710-MMcf/d available) 2/15 - 2/28

0-MMcf/d (leaving 730-MMcf/d available) 3/1 - 3/10

90-MMcf/d (leaving 640-MMcf/d available) 3/11 - 3/16

0-MMcf/d (leaving 730-MMcf/d available) 3/17 - 3/31

Youngs Rd. Delivery (LOC #523090) CN ID #9078

Scheduling Firm Primary only nominations 2/8 – 3/1

Outage Postings


- Service impacts are estimates. Actual nominations, markets, weather and pipeline conditions will determine any level of curtailments.
- Projects may be added, altered, delayed or cancelled. Emergent work cannot be planned and will happen from time to time.
- Notice of such planned work, including additions or changes, will be provided via a posting under the Planned Service Outage (PSO) category in GEMS. Emergent work will be posted under the Critical Notice category as soon as possible.




DeAnna Parsell, Noms & Scheduling

ANR Info Posting & EBB Update




Per customer request Planned Service Outages (PSO) are now visible under Critical Notices, so both notice indicators (Critical & PSO) can be viewed in one place



Informational Postings
Capacity
Gas Quality
Index of Customers
Locations
Notices |
Critical Notices
Non-Critical Notices
Planned Service Outage
Request to Purchase
Releasable Capacity
Waste Heat
Posted Imbalances
Regulatory
Standards of Conduct
Tariff
Transactional Reporting
Notice Search
Meter Request Process
Other
Downloads
System Maps

Planned Service Outage Notices  [download](#)


TSP: 006958581
TSP Name: ANR Pipeline Company

Notice Type Desc	Posted Date/Time	Notice Effective Date/Time	Notice End Date/Time	Notice ID	
 Maint	02/15/2019 08:45	02/15/2019 08:45	04/01/2019 08:59	9093	Southwest Mainline Capacity Reduction(C
 Maint	02/08/2019 13:20	02/21/2019 09:00	02/23/2019 08:59	9083	Southeast Area Capacity Reduction (Upd
 Maint	01/29/2019 13:47	02/20/2019 09:00	03/01/2019 08:59	9061	Southeast Mainline Capacity Reduction (

3 record(s) retrieved

ANR Info Posting & EBB Update


Critical Notice view













Informational Postings
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Standards of Conduct
Tariff
Transactional Reporting
Notice Search
Meter Request Process
Other
Downloads
System Maps

| Critical Notice |

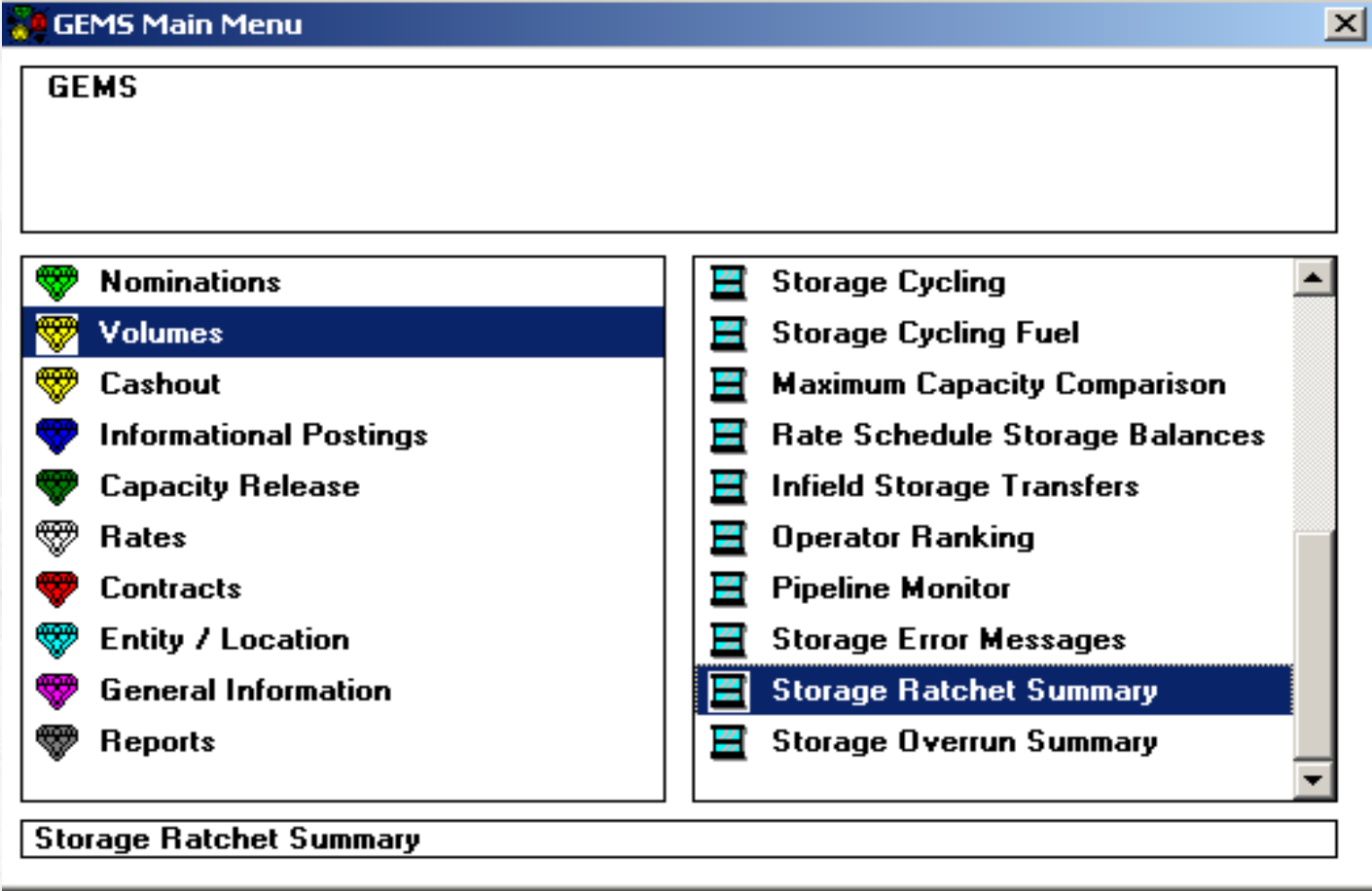
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 [download](#)

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 Maint	02/15/2019 08:45	02/15/2019 08:45	04/01/2019 08:59	9093	Southwest Mainline Capacity Redu
 Force Maj	02/15/2019 08:10	02/15/2019 08:10	02/17/2019 08:59	9092	ANR Pipeline Company Notice of F
 Maint	02/08/2019 13:20	02/21/2019 09:00	02/23/2019 08:59	9083	Southeast Area Capacity Reduction
 Maint	02/08/2019 07:36	02/08/2019 09:00	03/01/2019 08:59	9078	MLS Capacity Restriction (Posted 2
 Cust Srvc	02/06/2019 15:42	02/20/2019 15:42	02/20/2019 23:59	9075	Attn: All ANR Customers PLEASE
 Maint	02/01/2019 10:15	02/01/2019 10:15	04/01/2019 08:59	9071	Southeast Area Capacity Reduction
 Maint	01/29/2019 13:47	02/20/2019 09:00	03/01/2019 08:59	9061	Southeast Mainline Capacity Reduc
 Maint	01/28/2019 09:00	01/28/2019 09:00	02/20/2019 08:59	9056	Southeast Area Capacity Reduction
 Maint	01/16/2019 13:05	01/16/2019 13:05	02/18/2019 08:59	9034	Capacity Reduction: SEMML (Jena S
 Constraint	12/12/2018 15:13	12/14/2018 09:00	04/01/2019 08:59	8990	Southeast Area Capacity Restrictio

ANRPL FSS Storage Ratchet and Overrun - Reminders

Navigation to the FSS storage screen summaries - GEMS Main Menu – Volumes – Storage Ratchet Summary & Storage Overrun Summary



ANRPL FSS Storage Ratchet and Overrun - Reminders

Storage Ratchet Summary

GEMS PROD - ANR PIPELINE COMPANY

File Edit View Actions Options Window Help

Storage Ratchet Summary

Retrieve Criteria

Svc Req Entity ID:

Svc Req Name: <ALL>

Svc Req K: <ALL>

Rate Schedule: FSS

Production Period:

Annual/Seasonal: <ALL>

Ratchet: <ALL>

Injections

Withdrawals

Injections Ratchet Summary

Row 1 of 1


Last Allocated Day :	Contract No.	Current MDIQ	Contract MDIQ	A/S	Rat Svc.	Maximum Storage Quantity	Current Balance	Ratchet Level 1	Projected No. Days to Rat.	Est'd. Days to Fill Account
Shipper Name										
Total :		0				0	0			

ANRPL FSS Storage Ratchet and Overrun - Reminders

Storage Overrun Summary

GEMS PROD - ANR PIPELINE COMPANY

File Edit View Actions Options Window Help



Storage Overrun Summary

Retrieve Criteria

Svc Req Entity ID:

Svc Req K:

Annual/Seasonal: <ALL>

Svc Req Name: <ALL>

Rate Schedule: FSS

Production Period:

Ratchet: <ALL>

Storage Overrun Summary

No Rows

Last Alloc Dt :

Shipper Name	Contract No.	A/S	Rat Svc.	Maximum Storage Quantity	Contract MDIQ	Current MDIQ	Actual Inj. Over	Projected Inj. Over	Contract MDWQ	Current MDWQ	Actual Whdl. Over	Projected Whdl. Over
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ANRPL FSS Storage Ratchet and Overrun - Reminders

- Storage contracts can be viewed in GEMS – Volumes – Rate Schedule Storage Balances – (double click in selected contract to retrieve) - Daily Storage By Contract
- Here daily activity can be viewed for the selected contract. By double clicking on the selected day, all individual transactions can be seen

GEMS PROD - ANR PIPELINE COMPANY							
File View Options Window Help							
Daily Storage By Contract							
Storage Balance Summary							Row 1 of
Entity ID:		Entity Name:		Last Allocated Day: 2/13/2019			
Storage Contract:		Rate Sched: FSS		Inj/Wthd Period: WTHD			
Annual/Seasonal: Seasonal		Ratcheted: Yes		Projected Days To MSQ/Zero:			
Begin Month Balance:		MSQ:		Current Balance:			
Daily Summary	Nom/Alloc	NNS	Infield	Ratchet Inj	Ratchet Wthd	Overrun	Transport Contr
Day	Status	Gross Injection	Fuel	Net Injection	Withdrawal	Adjustment	End Balance
01	Actual	715	4	711	1,700	11	154,226
02	Actual	615	3	612	0	0	154,838
03	Actual	696	4	692	0	0	155,530
04	Actual	903	1	902	0	0	156,432
05	Actual	1,072	4	1,068	0	0	157,500
06	Actual	1,012	2	1,010	0	0	158,510
07	Actual	673	0	673	1,369	0	157,814
08	Actual	291	0	291	3,000	0	155,105
09	Actual	1,005	5	1,000	2,300	14	153,819
10	Actual	411	2	409	1,000	6	153,234
11	Actual	0	0	0	1,093	0	152,141
12	Actual	673	0	673	1,871	0	150,943
13	Actual	0	0	0	1,345	0	149,598
14	Projected	0	0	0	500	0	149,098
15	Projected	0	0	0	0	0	149,098

ANRPL FSS Storage Ratchet and Overrun - Reminders

Rate Schedule Storage Balances screen has Ratchet Injection/Ratchet Withdrawal tabs where the FSS ratchet levels can be viewed

GEMS PROD - ANR PIPELINE COMPANY							
File View Options Window Help							
Daily Storage By Contract							
Storage Balance Summary							Row 1 of 1
Entity ID:		Entity Name:		Last Allocated Day: 2/13/2019			
Storage Contract:		Rate Sched: FSS		Inj/Wthd Period: WTHD			
Annual/Seasonal: Seasonal		Ratcheted: Yes		Projected Days To MSQ/Zero:			
Begin Month Balance:		MSQ:		Current Balance:			
Daily Summary	Norm/Alloc	NNS	Infield	Ratchet Inj	Ratchet Wthd	Overrun	Transport Contr
Current Storage Balance		Ratchet Level	From Balance	To Balance	Current MDWQ	Ratcheted MDWQ	Projected Days to New Ratchet / Zero
		0	277,250	55,451	5,545	5,545	Days To Ratchet 1 17.0
		1	55,450	41,589		4,991	Days To Ratchet 2 19.8
		2	41,588	27,726		4,436	Days To Ratchet 3 22.9
		3	27,725	13,864		3,881	Days To Ratchet 4 26.5
		4	13,863	0		3,327	Days To Zero 30.6

ANRPL FSS Storage Ratchet and Overrun - Reminders

Additionally customers can see if their FSS contracts are in Injection or Withdrawal Overrun for any day in the month selected

Daily Storage By Contract							
Storage Balance Summary							Row 1 of 1
Entity ID:		Entity Name:		Last Allocated Day: 1/31/2019			
Storage Contract:		Rate Sched: FSS		Inj/Wthd Period: WTHD			
Annual/Seasonal: Seasonal		Ratcheted: Yes		Projected Days To MSQ/Zero:			
Begin Month Balance:		MSQ:		Current Balance:			
Daily Summary	Nom/Alloc	NNS	Infield	Ratchet Inj	Ratchet Wthd	Overrun	Transport Contr
Day	Status	Injection Overrun	Withdrawal Overrun				
01	Actual						
02	Actual						
03	Actual						
04	Actual						
05	Actual						
06	Actual		9				
07	Actual						
08	Actual						
09	Actual						
10	Actual						
11	Actual						
12	Actual						
13	Actual		1				
14	Actual		235				
15	Actual						
16	Actual						
17	Actual						
18	Actual	2,877					
19	Actual		320				
20	Actual		3,218				
21	Actual	178					
22	Actual						

ANR Customer Assistance

For further customer assistance concerning scheduling priorities related to your specific firm service agreement(s), firm service rights and features, GEMS new user training, virtual and face-to-face meetings, *etc.*, please contact the ANR Noms & Scheduling Team:

Toll Free: 1-800-827-5267

Group Email: ANR_Noms_Scheduling@transcanada.com

Web address for the ANRPL Tariff: www.anrebb.transcanada.com