

Gas Measurement

Training Module

Information in this document explains how to access measured quantity data for locations.



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Important Information – Please Read

The information provided herein is for informational purposes only and does not modify any provision in Transco's FERC Gas Tariff. If a conflict exists between this information and Transco's FERC Gas Tariff, the provisions in Transco's FERC Gas Tariff apply. Transco makes no representation or warranty as to the completeness or accuracy of this information. Transco shall not be liable for any informational errors, incompleteness or delays, or for any actions taken in reliance on this information.

To review the tariff language specific to any topic, go to <u>Transco's Informational Postings page</u>, and select **Tariff** from the left hand navigation menu.

Introduction to Gas Measurement (GM)

Operators and their agents have the ability to view the best available measurement data associated with their locations via the 1Line System. In order to view that data, operators or their agents must have the **Measurement View** role. In 1Line, measurement quantities can be accessed two different ways. Measurement quantities may be viewed from **Gas Measurement (GM)** or from the 1Line Navigation Menu. When a meter is assigned to a Location in 1Line, the measurement data will be extracted from GM during the 11:00 AM and Evening batch jobs.

Gas Measurement (GM) provides customers with the most up-to-date information. Security measures will ensure that customers can only see the information that they are entitled to see.

GM – Daily Volumes

- 1. Click on the Gas Measurement (GM) tab
- 2. Select GM Daily Volumes

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- 3. Choose Device Station Number (Meter Number)
- 4. For Meter ID, choose All or Individual Meters
- 5. Select Beginning Flow Date and End Flow Date
- For Data, select Current or As Closed
 * Current Data will include ALL current and PPA measurement volumes
 *As Closed will provide a pop window to contact measurement rep
- 7. Select to View Summary or Detail version of the page
- 8. Finally, click on Retrieve to view data

TSP/Prop/Name/ID: Transco - 007933021	Sean Xin 1Line System Time 2:25 PM CDT
Williams.	
Home My Dashboard Navigation + +	Gas Measurement (GM) * Pipelines * Tools * Reports Print Logoff
My Dashboard 🗴 GM - Daily Volumes 🗴	
Gas Messurement (GMp- GM - Daily Volumes	
Filters	COLLAPSE D
Device Station Number: (05203 - COMP STA 65 MLD V)	Meter ID: 05203-All Choose All, or Active, Removed, Standby
Data: Choose to view Current or As Closed Data	Contact Name/Phone: WEEKS, MARY JO (713)215-2857
Summary O Detail Choose to view Summary or Detail Page	Stmt D/T: 10/05/2014 Statement Download Date
Radieva Clear Click on Retrive	

The **Summary** Page will appear with daily and total volumes to this specific meter.

TSP/Prop/Name/ID: Tran Williams. Home My Dashb My Dashboard x	sco - 007933021 1 and Navigation + + GM - Daily Volumes _x		Training Linux			Gas Measurement (GM) - Poetine	Sun Kin 11un System Time 2321 P4 C07
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05203	05203-ALL	10/02/2014 09:00:00	1.0312	339998	350607 Advance No	otification	Incomplete due to the timing
05203	05203-ALL	10/03/2014 09:00:00	1.0278	258602	265804 Advance No	otification	of measurement runs
05203	05203-ALL	10/04/2014 09:00:00	1.0295	120408	123956 Advance No	otification	Incomplete
			Station Totals :	1122900	1155812		

The **Detail** page will show the following additional items:

- Sta No
- Meter ID
- Beg Date Time
- Flow Per
- Temp
- Spec Grav
- Diff Pres
- Static Press
- Ext/Vol Uncorr
- Cmpnt/Val/Carbon Dioxide
- Cmpnt/Val/Nitrogen
- Heat Fctr
- Vol
- Meas Qty
- Comments
- Bus Per
- Adj Type
- End Date Time
- Stmt Type

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Device Station Number: (65203 - COMP STA 65 MLD 🗸										noved, Standby								
	Begin Flow Date: 1001/2014 End Flow Date: 1005/2014																	
	Data: Current V Choose to view Current or As Closed Data Contact Name/Phone: WEEKS, MARY JO (713)215-2657																	
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			Г	Choose	e to view Sum	nmary or D	etail Page					Stm	D/T: 10/06/	2014 State	ment Down	nload Date		Original = Closed not PPA
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Dow	nload										r	Search su	CCESSFully con	pleted. Record	is found 4	Curre	ent or PPA	Replacement = Closed PPA
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05203	05203-01	10/01/2014 09:00:00	24.000	77.900	0.578		647.300	8778.06348	0.659	0.299	1.0286	403892	415445		Current		10/02/2014 09:00:00	Advance Notification
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05203	05203-01	10/03/2014 09:00:00	24.000	77.500	0.576		655.500	5537.84619	0.571	0.324	1.0278	258602	265804		Current		10/04/2014 09:00:00	Advance Notification
05203	05203-01	10/04/2014 09:00:00	12.000	78,300	0.577		694.100	2426.65259	0.572	0.317	1.0295	120408	123956	Incomplete	Current		10/05/2014 09:00:00	Advance Notification
										5	tation Totals :	1122900	1155812					

GM - Hourly Volumes

- 1. Click on the Gas Measurement (GM) tab
- 2. Select GM Hourly Volumes

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Home My Dashboard Navigation -		_					Gas Measurement (GM) P GM - Daily Volumes	≏pelines ▼ Tools ▼ Reports Print Logo
							GM - Hourly Volumes GM - Monthly Volumes	-
Curle Indicators	ID1	TIMELY	ID2	EVENING	POST	Pipeline Conditions	GM - 3rd Party Volumes GM - Gas Quality	
Gas Day	9/25	9/26	9/25	9/26	9/24	Pipeline conditions not available	GM - Meter Characteristics Reports	
Nomination Cycle Confirmation Cycle	CLOSED	CLOSED OPEN	OPEN CLOSED	OPEN CLOSED	CLOSED			
Monthly Status								
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September trading Opens on Wednesday	10/01							

- 3. Choose **Device Station Number** (Meter Number)
- 4. For Meter ID, choose either All or Individual Meters
- 5. Select Beginning Flow Date and End Flow Date
- For Data, select Current or As Closed
 * Current Data prior will include ALL current and PPA measurement volumes.
 *As Closed data will provide a pop window to contact measurement rep.
- 7. Select **Summary** or **Detail** version of the page
- 8. Finally, click on Retrieve to view data

Summary page will appear with hourly and total volumes to this specific meter

TSP/Prep/Name/ID: T	ransco - 007933021				and the second second	3	Sean Xin 1Line System Time 4:12	PM CDT
Williams.			Training Linux					LINE
Home My Das	hboard Navigation + +					Gas Measurement (GM) - Pipeline	es • Tools • Reports Print	Logoff
My Dashboard 😠	GM - Daily Volumes x GM	- Hourly Volumes 🕱						
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Click on Re Retrieve	Device St Be Clear	ation Number: [0503 - COMP STA 65 MLD v gin Flow Date: [1001/0714] Date: As Closes Sammary O Detail Choose to view Summary or Detail Page	w Current or As Closed Data	Stmt Type: Original = Closed Advance Notifica Open mont Replacement = Clo	Met End Flow Contact Name/P Locatic Stml Search so	w ID: 05393-44 Ch Date: 1005/2014 Ch anne: VEKS, MAY JO (713):15-267 n ID: 200022 New Location ID Feature 0.071: 1006/2014 Statement Download Date central-manpleted. Records found: 84	e ate]
Sta No	Meter ID	Beg Date	Heat Fctr	MCF Vol	DTH Meas Qty	Stmt Type	Comments	
05203	05203-ALL	10/01/2014 09:00:00	1.0354	17775.344	18439.543	Advance Notification		~
05203	05203-ALL	10/01/2014 10:00:00	1.0351	18598.387	19260.479	Advance Notification		
05203	05203-ALL	10/01/2014 11:00:00	1.0331	20382.828	21115.877	Advance Notification		
05203	05203-ALL	10/01/2014 12:00:00	1.0291	20226.871	20931,309	Advance Notification		
05203	05203-ALL	10/01/2014 13:00:00	1.0244	19694,850	20313.953	Advance Notification		
05203	05203-ALL	10/01/2014 14:00:00	1.0252	17525.523	17967.801	Advance Notification		
05203	05203-ALL	10/01/2014 15:00:00	1.0289	16788.375	17195.039	Advance Notification		
05203	05203-ALL	10/01/2014 16:00:00	1.0261	15651.641	16102.404	Advance Notification		
05203	05203-ALL	10/01/2014 17:00:00	1.0279	15845.372	16261.894	Advance Notification		
05203	05203-ALL	10/01/2014 18:00:00	1.0290	15906.783	16339.491	Advance Notification		
05203	05203-ALL	10/01/2014 19:00:00	1.0268	15881.464	16347.863	Advance Notification		
05203	05203-ALL	10/01/2014 20:00:00	1.0248	16065.365	16510.451	Advance Notification		

The **Detail** page will show the following additional items, as well as the individual meters:

- Sta No
- Meter ID
- Beg Date Time
- Flow Per
- Temp
- Spec Grav
- Diff Pres
- Static Press
- Ext/Vol Uncorr
- Cmpnt/Val/Carbon Dioxide
- Cmpnt/Val/Nitrogen
- Heat Fctr
- Vol
- Meas Qty
- Comments
- Bus Per
- Adj Type
- End Date Time
- Stmt Type

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203 05/03/01 1001/2014 1700/00 1.000 78.100 0.577 638.400 350.75021 0.643 0.298 1.0279 1584/549 15261.894 Ourient 10	01/2014 18:00:00 Original
203 05203-01 1001/2014 18:00:00 1:000 77:700 0.578 694:200 352:91:28 0.641 0.300 1:0210 15901:040 16339:491 Current 10	01/2014 19:00:00 Original
100 (5202-01 1001/2014 19:00:00 1 1000 77:600 0.576 633 100 393 10221 0.629 0.305 1.0288 15882.243 16347.863 Current 10	01/2014 20:00:00 Original

GM - Monthly Volumes

- 1. Click on the Gas Measurement (GM) tab
- 2. Select GM Monthly Volumes

My Dashboard Navigation	A CONTRACTOR	6 9		Lin	ning nux		Gas Measurement (GM)	Pipelines • Tools • Reports Pri
							GM - Daily Volumes GM - Hourly Volumes	
							GM - Monthly Volumes	7
Cycle Indicators	ID1	TIMELY	ID2	EVENING	POST	Pipeline Conditions	GM - Gas Quality	
						Pipeline conditions not available	GM - Meter Characteristics	
Gas Day Nomination Cycle Confirmation Cycle	9/25 CLOSED CLOSED	9/26 CLOSED OPEN	9/25 OPEN CLOSED	9/26 OPEN CLOSED	9/24 CLOSED CLOSED		Keports	
aly Status								
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nce data for July is Final as Day Changes for SEP,2014 availa as Day Changes for JAN,2014 - JUL nerv Availation Sentember Demond	ble through 10/02/2014 2014 not allowed at this tim	ie.						
ary August and September Common Demand Invoices for July are Final	ity Invoices are now availab	sle						
/ Commodity Invoices for July are Fir	al							
t trading is Open until 11:59 PM on V	fednesday 09/24							

- 3. Choose Device Station Number (Meter Number)
- 4. Select Flow Month
- 5. Click on **Retrieve** to view data

Monthly volumes page will appear with total volumes

SP/Prep/Name/ID: Transco - 0079330			The most of the line	3 - 20	Sean Xin 1Line System Time 1:44
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ome My Dashboard Nav	igation • +			Gas Measurement (GM) - Pipeline:	s Tools Reports Print
GM - Monthly Volumes					
Gas Measurement (GM)> GM - Monthe	y Volumes				
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Sta No	Meter ID	Loc Name		Vol	Meas Qty
203	05203-01	COMP STA 65 MLD		8420645	86
			Station Totals :	8420645	86
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This data is provided for informi generated. In that regard, data completeness or accuracy of the	ational purposes only. The data may not have been aud may not be available from all locations at all times due information and does not represent or warrant that th	ited for accuracy or corrected and may be subject to change. Williams reports the data on a to maintenance, equipment malfunction or interruption in data transmittal. The data is prore data is fit for any particular use or purpose. Williams shall not be liable for any informati	m "as available" basis and re vided on an "as is" basis for i onal errors, incompleteness o	lects the most recently available data for each nformational purposes only, and Williams make r delays, or for any actions taken in reliance on	location as of the date the report or data i s no representation or warranty as to the the reported data.

GM – 3rd Party Volumes

*Only available for Agencies or third parties related to the meter station.

- 1. Click on the Gas Measurement (GM) tab
- 2. Select **GM 3RD Party Volumes**

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My Dashboard Navigation	+	_					Gas Measurement (GM) Pipelines •	Tools - Reports Print
							GM - Hourty Volumes	
							GM - Monthly Volumes	
							GM - 3rd Party Volumes	
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Cycle Indicators	1.51					Sinaine conditions out scalable	GM - Meter Characteristics	
Gas Day	9/29	9/30	9/29	9/30	9/28		Reports .	
Nomination Cycle	OPEN	OPEN	CLOSED	CLOSED	OPEN			
Confirmation Cycle	CLOSED	CI.OSED	CLOSED	CLOSED	CLOSED			
thly Status								
tions Data is available through 09/27/	014							
tions for July are Final								
ance data is available through 09/2//2 lance data for Juliy is Final	714							
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ly Commodity Invoices for July are Fir	al							
at trading is Open until 11-59 PM on 1	lednesday 09/24							
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- 3. Choose Device Station Number (Meter Number)
- 4. Select Flow Month
- 5. Click on Retrieve to view data

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Home My Dashboard Navigation • +	Gas Measurement (GM) Pipelines Tools Reports Print Logoff
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Device Station Number: 05203 - COMP STA 65 MLD 🗸	Flow Month: Sep 2014 V
Retrieve	
	No record meets criteria.
Disclaimer	COLLAPSE &
This data is provided for informational purposes only. The data may not have been audited for accuracy or corrected and may be subject generated. In that regard, data may not be available from all locations at all times due to maintenance, equipment matiguitorion or interru- comdeteness: a orcuracy of the information and does not renorsent or warrant that the data is fit for any anticular use or purpose. Will	to change. Williams reports the data on an "as available" basis and reflects the most recently available data for each location as of the date the report or data is option in data transmittal. The data is provided on an "as is" basis for informational purposes only, and Williams makes no representation or warranty as to the isaws shall not be liable for an informational errors. Incompleteness on delaws. Or for any actions then in melance on the reported data.

GM - Gas Quality

- 1. Click on the Gas Measurement (GM) tab
- 2. Select **GM Gas Quality**



- 3. Choose Device Station Number (Meter Number)
- 4. Select Begin Flow Date and End Flow Date
- 5. Select on Frequency, choose from the following options: Monthly, Daily, Hourly
- 6. Click on Retrieve

The **Monthly** Page will show the average daily calculation for the following:

- Spec Grav
- Heat Factor
- Nitrogen
- Carbon Dioxide
- Methane
- Ethane
- Propane
- I-Butane
- N-Butane
- I-Pentane
- N-Pentane
- Hexane
- Hydrogen Sulfide

P/Prep/Nam	ne/ID: Transco	007933021			1000	5	1 2 2 2					and Mills		2	100	Sean	Xin 1Line System	Time 10:09 AN
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eter ID	Chrmtg	Beg Date Time	G A Eff Date	Spec Grav	Heat Factor	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	I-Butane	N-Butane	I-Pentane	N-Pentane	Hexane	Hydrogen Sulfide	Smpl Dev	Smpl Typ
1	GQC05203	09/01/2014 09:00:00	09/01/2014	0.580	1.0327	0.274	0.668	95.732	3.146	0.107	0.018	0.019	0.011	0.007	0.019	0.00	6 Chromatograph	Accumulated

The **Daily** Page will show the Daily calculations for the following:

- Spec Grav
- Heat Factor
- Nitrogen
- Carbon Dioxide
- Methane
- Ethane
- Propane
- I-Butane
- N-Butane
- I-Pentane
- N-Pentane
- Hexane
- Hydrogen Sulfide

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			Device Station Numbe	ar; 05203 - COM	P STA 65 MLD	~												hannen
			Begin Flow Dat	e: 09/01/2014									End Flow Da	te: 09/07/2014				
			Frequenc	V: O Monthly		rh.												
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Downlo	ad											Se	earch successfu	Ily completed. Re	cords found:	7		
		-							(HEART-GOAL)		2010000				Descarga			100000000000000000000000000000000000000
ter ID	Chrmtg	Beg Date Time	G A Eff Date	Spec Grav	Heat Factor	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	I-Butane	N-Butane	I-Pentane	N-Pentane	Hexane	Hydrogen Sulfide	Smpl Dev	Smpl Typ
ter ID	Chrmtg GQC05203	Beg Date Time 09/01/2014 09:00:00	G A Eff Date 09/01/2014	Spec Grav 0.583	Heat Factor	Nitrogen 0.255	Carbon Dioxide	Methane 95.396	Ethane 3.318	Propane 0.147	1-Butane 0.024	N-Butane 0.023	0.010	N-Pentane 0.006	Hexane 0.025	Hydrogen Sulfide 0.000	Smpl Dev Chromatograph	Smpl Typ Accumulated
ter ID 3 3	Chrmtg GQC05203 GQC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00	G A Eff Date 09/01/2014 09/02/2014	Spec Grav 0.583 0.580	Heat Factor 1.0340 1.0315	Nitrogen 0.255 0.271	Carbon Dioxide 0.795 0.712	Methane 95.396 95.795	Ethane 3.318 3.034	Propane 0.147 0.118	0.024 0.019	0.023 0.020	0.010 0.009	N-Pentane 0.005 0.005	Hexane 0.025 0.017	Hydrogen Sulfide 0.000 0.000	Smpl Dev Chromatograph Chromatograph	Smpl Typ Accumulated Accumulated
ter ID 3 3 3	Chrmtg GQC05203 GQC05203 GQC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00 09/03/2014 09:00:00	G A Eff Date 09/01/2014 09/02/2014 09/03/2014	Spec Grav 0.583 0.580 0.582	Heat Factor 1.0340 1.0315 1.0348	Nitrogen 0.255 0.271 0.282	Carbon Dioxide 0.795 0.712 0.695	Methane 95.396 95.795 95.529	Ethane 3.318 3.034 3.225	Propane 0.147 0.118 0.155	0.024 0.019 0.029	0.023 0.020 0.033	0.010 0.009 0.016	N.Pentane 0.006 0.005 0.010	Hexane 0.025 0.017 0.025	Hydrogen Suffide 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph	Accumulated Accumulated Accumulated Accumulated
iter ID 3 3 3 3 3	Chrmtg GQC05203 GQC05203 GQC05203 GQC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00 09/03/2014 09:00:00 09/04/2014 09:00:00	G A Eff Date 09/01/2014 09/02/2014 09/03/2014 09/03/2014	Spec Grav 0.583 0.580 0.580 0.580	Heat Factor 1.0340 1.0315 1.0348 1.0335	Nitrogen 0.255 0.271 0.282 0.291	Carbon Dioxide 0.795 0.712 0.695 0.600	Methane 95.396 95.795 95.529 95.875	Ethane 3.318 3.034 3.225 2.989	Propane 0.147 0.118 0.155 0.131	1-Butane 0.024 0.019 0.029 0.027	N-Butane 0.023 0.020 0.033 0.033	0.010 0.009 0.016 0.016	N-Pentane 0.006 0.005 0.010 0.011	Hexane 0.025 0.017 0.025 0.025	Hydrogen Sulfide 0.000 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph Chromatograph	Smpl Typ Accumulated Accumulated Accumulated Accumulated Accumulated
eter ID 3 3 3 3 3 3	Chrmtg GGC05203 GGC05203 GGC05203 GGC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00 09/02/2014 09:00:00 09/04/2014 09:00:00 09/04/2014 09:00:00	G A Eff Date 09/01/2014 09/02/2014 09/03/2014 09/04/2014 09/05/2014	Spec Grav 0.583 0.580 0.582 0.580 0.580	Heat Factor 1.0340 1.0315 1.0348 1.0335 1.0316	Nitrogen 0.255 0.271 0.282 0.291 0.297	Carton Dioxide 0.795 0.712 0.695 0.600 0.578	Methane 95.396 95.795 95.529 95.875 96.039	Ethane 3.318 3.034 3.225 2.989 2.926	Propane 0.147 0.118 0.155 0.131 0.080	LButane 0.024 0.019 0.029 0.027 0.015	N-Butane 0.023 0.020 0.033 0.033 0.019	0.010 0.009 0.016 0.016 0.013	N-Pentane 0.005 0.010 0.011 0.009	Hexane 0.025 0.017 0.025 0.025 0.028 0.023	Hydrogen Sulfide 0.000 0.000 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph	Smpl Typ Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated
eter ID 3 3 3 3 3 3 3	Chrmtg GGC05203 GGC05203 GGC05203 GGC05203 GGC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00 09/03/2014 09:00:00 09/03/2014 09:00:00 09/04/2014 09:00:00 09/05/2014 09:00:00 09/05/2014 09:00:00	G A Eff Date 09/01/2014 09/03/2014 09/03/2014 09/04/2014 09/05/2014 09/05/2014	Spec Grav 0.583 0.580 0.582 0.580 0.578 0.578	Heat Factor 1.0340 1.0315 1.0348 1.0335 1.0316 1.0317	Nitrogen 0.255 0.271 0.282 0.291 0.297 0.281	Carbon Dioxide 0.795 0.712 0.605 0.600 0.578 0.742	Methane 95.396 95.795 95.529 95.875 96.039 95.720	Ethane 3.318 3.034 3.225 2.989 2.926 3.055	Propane 0.147 0.118 0.155 0.131 0.000 0.118	LButane 0.024 0.019 0.029 0.027 0.015 0.023	N-Butane 0.023 0.020 0.033 0.033 0.033 0.033 0.019	0.010 0.009 0.016 0.016 0.013 0.012	N.Pentane 0.005 0.010 0.011 0.011 0.009 0.008	Hexane 0.025 0.017 0.025 0.025 0.028 0.023 0.020	Hydrogen Sulfide 0.000 0.000 0.000 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph	Smp1 Typ Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated
eter ID 13 3 3 3 3 3 3 3	Chrmtg GQC05203 GQC05203 GQC05203 GQC05203 GQC05203 GQC05203 GQC05203 GQC05203 GQC05203	Beg Date Time 09/01/2014 09:00:00 09/02/2014 09:00:00 09/03/2014 09:00:00 09/03/2014 09:00:00 09/03/2014 09:00:00 09/05/2014 09:00:00 09/05/2014 09:00:00 09/05/2014 09:00:00 09/05/2014 09:00:00	G A Eff Date 09/01/2014 09/02/2014 09/03/2014 09/04/2014 09/05/2014 09/05/2014 09/05/2014	Spec Grav 0.583 0.580 0.582 0.580 0.578 0.578 0.578	Heat Factor 1.0340 1.0315 1.0348 1.0335 1.0316 1.0317 1.0313	Nitrogen 0.255 0.271 0.282 0.291 0.291 0.281 0.281	Carbon Dioxide 0.795 0.712 0.695 0.600 0.578 0.742 0.669	Methane 95.396 95.795 95.875 96.039 95.720 95.868	Ethane 3.318 3.034 3.225 2.989 2.926 3.055 3.025	Propane 0.147 0.118 0.155 0.131 0.080 0.118 0.086	LButane 0.024 0.019 0.029 0.027 0.015 0.023 0.017	N-Buttane 0.023 0.033 0.033 0.033 0.033 0.019 0.021 0.018	0.010 0.009 0.016 0.016 0.016 0.013 0.012	N.Pentane 0.005 0.005 0.010 0.010 0.001 0.009 0.008 0.008	Hezane 0.025 0.017 0.025 0.025 0.023 0.023 0.020 0.017	Hydrogen Sutfide 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph	Smpl Typ Accumulated Accumulated
etter ID 3 3 3 3 3 3 3 3 3	Chrmtg GQC05203 GQC05203 GQC05203 GQC05203 GQC05203 GQC05203	Beg Date Time 09/07/2014 09:00:00 09/02/2014 09:00:00 09/03/2014 09:00:00 09/04/2014 09:00:00 09/05/2014 09:00:00 09/05/2014 09:00:00	G A ERT Date 09/01/2014 09/02/2014 09/03/2014 09/04/2014 09/04/2014 09/05/2014 09/05/2014	Spec Grav 0.583 0.580 0.580 0.580 0.578 0.578 0.579	Heat Factor 1 0340 1 0345 1 0348 1 0346 1 0345 1 0317 1 0313	Nitrogen 0.255 0.271 0.282 0.291 0.297 0.281 0.282	Carbon Dioxide 0.785 0.712 0.695 0.600 0.570 0.742 0.609	Methane 95.396 95.795 95.875 96.039 95.720 95.868	Ethane 3.318 3.034 3.225 2.989 2.926 3.055 3.025	Propane 0.147 0.118 0.155 0.131 0.000 0.118 0.006	LButane 0.024 0.019 0.029 0.027 0.015 0.023 0.017	N-Buttane 0.023 0.020 0.033 0.033 0.033 0.019 0.021 0.018	0.010 0.009 0.016 0.016 0.016 0.013 0.012 0.011	N.Pentane 0.005 0.010 0.011 0.009 0.008 0.008	Hexane 0.025 0.017 0.025 0.025 0.026 0.023 0.020 0.017	Hydrogen Suttide 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Smpl Dev Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph Chromatograph	Smpl Typ Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated Accumulated

The **Hourly** Page will show hourly calculations for the following:

- Spec Grav
- Heat Factor
- Nitrogen
- Carbon Dioxide
- Methane
- Ethane
- Propane
- I-Butane
- N-Butane
- I-Pentane
- N-Pentane
- Hexane
- Hydrogen Sulfide

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GM - Gas	Quality																		
Gas Measu	irement (GM)> 6	IM - Gas Quality																	
Pillers	Iters Iters Iters Iters Iters Iters Device Station Number: 0500 - COUP STA 65 MLD v Iters Iters Begin How Date: 06007/2014 Iters Iters Frequency: O Monthly Date: 06007/2014 Iters															24.1			
Retriev Downlo		ear		100000000000000000000000000000000000000					Provinsional				Search success	sfully completed.	Records four	nd: 145			
Meter ID	Chrmtg	Beg Date Time	G A Eff Date	Spec Grav	Heat Factor	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	I-Butane	N-Butane	I-Pentane	N-Pentane	Hexane	Hydrogen Sulfide	Smpl Dev	Smpl Type	4
203	GQC05203	09/01/2014 17:00:00	09/01/2014	0.584	1.0352	0.253	0.845	95.167	3.469	0.167	0.028	0.027	0.011	0.007	0.025	0.000	Chromatograph	Accumulated	- 1
203	GQC05203	09/01/2014 18:00:00	09/01/2014	0.584	1.0346	0.252	0.845	95.231	3.421	0.157	0.026	0.025	0.010	0.006	0.026	0.000	Chromatograph	Accumulated	
203	GQC05203	09/01/2014 19:00:00	09/01/2014	0.584	1.0339	0.251	0.854	95.284	3.374	0.150	0.025	0.023	0.010	0.006	0.025	0.000	Chromatograph	Accumulated	
2013	00005203	09/01/2014 20:00:00	09/01/2014	0.084	1.0340	0.250	0.803	30 %43	3.400	0.151	0.025	0.023	0.010	0.000	0.024	0.00	Chromatograph	Accumulated	
203	00005203	09/01/2014 21:00:00	09/01/2014	0.564	1.0349	0.248	0.055	90.167	3.460	0.155	0.025	0.023	0.010	0.006	0.025	0.00	Oheemakagraph	Accumulated	
202	00005203	00/01/2014 22:00:00	00/01/2014	0.504	1.0355	0.241	0.000	06.210	2.477	0.104	0.023	0.023	0.000	0.000	0.024	0.000	Chromatograph	Accumulated	
202	0.0005203	09/02/2014 00:00:00	09/07/2014	0.501	1,0397	0.246	0.030	95.406	3 335	0.195	0.022	0.021	0.009	0.005	0.024	0.00	Chromatograph	Accumulated	
203	80005202	00/02/2014 01:00:00	09/02/2014	0.565	1,0230	0.240	0.002	06,604	3.340	0.135	0.020	0.019	0.000	0.000	0.023	0.00	Chromatograph	Accumulated	
203	60005203	09/02/2014 02:00:00	09/02/2014	0.582	1.0329	0.249	0.791	95.504	3.245	0.133	0.020	0.019	0.008	0.005	0.022	0.00	Chromatograph	Accumulated	
203	60005203	09/02/2014 03:00:00	09/02/2014	0.583	1.0345	0.250	0.700	95.415	3 287	0.152	0.079	0.079	0.000	0.000	0.023	0.00	Chromatograph	Accumulated	
203	80005203	09/02/2014 04:00:00	09/02/2014	0.583	1.0354	0.249	0.760	95 349	3.365	0.107	0.023	0.029	0.012	0.000	0.025	0.00	Chromatograph	Accumulated	
202	00006303	09/02/2014 05:00:00	00/02/2014	0.503	4.0320	0.240	0.700	05.244	2.500	0.100	0.021	0.020	0.015	0.000	0.020	0.00	Charmahaanah	Assumulated	

GM - Meter Characteristics

- 1. Click on the Gas Measurement (GM) tab
- 2. Select GM Meter Characteristics



- 3. Choose Device Station Number (Meter Number)
- 4. Select Begin Flow Date and End Flow Date
- 5. Click on Retrieve and view data

		contraction in the second s			TALLER OF MANAGEMENT OF THE OWNER.	NUMBER AND DESCRIPTION OF		and in Manual States	Section of the section of the	STATISTICS IN CONTRACTOR		CONTRACTOR OF	And a second sec	and the second se	
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lome	My Dashboar	rd Navigation + +			-						Gas Measi	urement (GM) = Pi	ipelines • Tools •	Reports P	Print Log
GM - Me	er Characteristic	(5													
Gas Mee	surement (GM)>	GM - Meter Characteristics													
Filters															SOLLAPSE 6
		Device	e Station Number: 0521 Begin Flow Date: 09/0	03 - COMP STA 65 ML						M End Flo	eter ID: 05203-/ w Date: 09/07/2	D14			
Reter	wo 1 6	loar													
Retric Downl	ve C	liear								Search succ	essfully completed	I. Records found: 2			
Rotric Downl Sta No	ve C oad Meter ID	Meter Eff Date / Time	Meter Status	Meter Type	Rpt Press Base	Rpt Temp	Atmos Press	Tube Diam	Orifice Diam	Search succ	essfully completes	I. Records found: 2 Max Diff Press	Min Static Press	Max Stat	lic Press
Rotne Downl Sta No 203	Meter ID 05203-01	Meter Eff Date / Time 08/01/2010 09:00:00	Moter Status Active	Meter Type Ultrasonic	Rpt Press Base 14.730	Rpt Temp 60.000	Atmos Press 14.700	Tube Diam	Orifice Diam	Search succe Tap Loc	Tap Type	I. Records found: 2 Max Diff Press	Min Static Press	Max Stat	lic Press 100
Retric Downl Sta No i203 203	Meter ID 05203-01 05203-01	Meter Eff Date / Time 06/01/2010 09:00:00 09/01/2014 09:00:00	Moter Status Active Active	Meter Type Ultrasonic Ultrasonic	Rpt Press Base 14.730 14.730	Rpt Temp 60.000 60.000	Atmos Press 14.700 14.700	Tube Diam	Orifice Diam	Search succe Tap Loc	tap Type	. Records found: 2 Max Diff Press	Min Static Press	Max Stat 0	lic Press 100 99

GM - Reports

1. Click on the Gas Measurement (GM) tab



- 2. Select Reports
- 3. Make sure to select the Request tab
- 4. Leave Functional Area as Measurement
- 5. Select from the following Report Names:
 - Gas Quality Audit Report
 - Gas Quantity Statement
 - Hourly Volume Audit Report
 - Laboratory Analysis of Gas Sample
 - Meter Characteristic Audit Report
- 6. For Report Format, choose from PDF, Word or Excel format
- 7. Select the appropriate Meter Number and Contract Month
- 8. Click Submit Report

1Line	Reports	Leave it as Measurement
List Request	Subscriptions	
		Functional Area: [Measurement V Data Files Only
	N	Click on the drop down Report Name: Gas Quantity Statement V What's This?
Make sure	to select on	and view different reports Report Format: Acrobat PDF 🗸 Kotoat PDF, Word or Excel format
Requ	lest tab	User Defined Report Name: Gas Quality Audt Report
		Email Address: SysTesNotification@Williams.com Intelly Availability Via Email: Default name of the report
		* Meter Number: [05203 - COMP STA 65 MLD 🗸
		Contract Months [Aug 2014 Chock the box to notify by Email Chock the box to notify by Email Chock the box to notify by Email
		Number and Contract month

- 9. Once the report is submitted, click on the List tab
- 10. Click **Retrieve**, the system will generate and run the Gas Quantity Report we submitted on the Request tab.

1Line	Reports			
List Request Subsc	iptons			
K				
Filters				COLLAPSE &
<u> </u>	Functional Areas: All Data Files Only			
Make sure to click	Report Name: [All v]			
on the List tab	Date Report Created Range: 09/29/2014 📅 To 09/30/2014 📰 Status: 📶 🗸			
	Submitted By: Sean Xin (SXIN) V			
	Include Batch Generated: 🗌 Include Report Subscriptions: 🕢			
	Business Associate (Prop): Cycle: V			
Retrieve Clear				
Download On	ce you Retrieve, let the system process. Once the report is ready to view, you will see a hyperlink on the report name, and status to Success			
	Report Name Subs Creation Date Status Submitted By Shipper	Contract 🤶	Location 🖕	Scheduling Cycle 🍦
	Gas Quantity Statement 4 0930/2014 10.52 Succes Sean Xin			

11. Click on the hyperlink Report Name and report will pop-up in a new window

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S 1Line QA Pa	age 🥭 1Line 💈	BI Gallery	🚯 Home - Tra	ansco BI POC			» 👌 -	· 🔊 • 🖃	🖶 🔻 Page 🕶 S	afety 🔻 Tools 🔻 🔞	- 🔊 🔅 🛛
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Device Station	Number: 052	103 MPRESSOR	STATION 65 M		JECK		Contact P	erson		740)045 0057	- 1
Meter ID	: 052	03-01	01711014 00 14		LOK		Conta Conta	ctName : W ctPhone : (7	/EEKS, MARY JU (. 13)215-2657	/13)215-2657	- 1
											- 1
Pressure Base:	14.730 psia	а т	Temperature B	ase: 60.0	0°F HV C	ond: Dry	Meter	Type: Ultraso	nic Contract	Hr.: 9 AM	- L
Meter Status:	Active	Ň	WV Technique:				WV Me	ethod:			
CO2	N2 H20) <u>H2S</u>	02	HE	C1	C2	<u>C3</u>	I-C4 N-C	C4I-C5	N-C5 C6+	
										0.000	
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Meter Size 42.0000 in.	Interval 1 Hour	_		Press. Comp	. Temp. (Comp. Atm	ios. Pressure	Calc. Meth	nod Fpv Methoo AGA8-Detail	0.000	-
Meter Size 42.0000 in.	Interval 1 Hour	_	-	Press. Comp	. Temp. (Comp. Atm	os. Pressure	Calc. Meth AGA7	AGA8-Detail	0.000	-
Meter Size 42.0000 in.	Interval 1 Hour			Press. Comp	. Temp. (Comp. Atm K-Factor	os. Pressure	Calc. Meth AGA7 Heating	AGA8-Detail	0.000	,
Meter Size 42.0000 in. Day	Interval 1 Hour Pulses (Counts)	Pressure (psia)	Temperature (°F)	Press. Comp Raw Volume (Mcf)	. Temp. (Relative Density	Comp. Atm K-Factor (pulses/ Mcf)	volume (Mcf)	Calc. Meth AGA7 Heating Value (Btu/scf)	AGA8-Detail	0.000	,]
Meter Size 42.0000 in. Day 1	Pulses (Counts) 39,242,216	Pressure (psia) 710.48	Temperature (°F) 77.64	Press. Comp Raw Volume (Mcf) 7,848,443	Relative Density 0.587	K-Factor (pulses/ Mcf) 5.0000	Volume (Mcf) 401,254	Calc. Meth AGA7 Heating Value (Btu/scf) 1033.4	Energy (MMBtu) 414,672	0.000) -]
Meter Size 42.0000 in. Day 1 2	Interval 1 Hour Pulses (Counts) 39,242,216 37,580,692	Pressure (psia) 710.48 723.93	Temperature (°F) 77.64 78.28	Press. Comp Raw Volume (Mcf) 7,848,443 7,516,138	Relative Density 0.587 0.586	K-Factor (pulses/ Mcf) 5.0000 5.0000	Volume (Mcf) 401,254 391,522	Calc. Meth AGA7 Heating Value (Btu/scf) 1033.4 1032.4	AGA8-Detail Energy (MMBtu) 414,672 404,225	0.000) -]
Meter Size 42.0000 in. Day 1 2 3	Interval 1 Hour Pulses (Counts) 39,242,216 37,580,692 36,747,561	Pressure (psia) 710.48 723.93 727.72	Temperature (°F) 77.64 78.28 78.37	Press. Comp Raw Volume (Mcf) 7,848,443 7,516,138 7,349,512	Relative Density 0.587 0.586 0.588	Comp. <u>Atm</u> K-Factor (pulses/ Mcf) 5.0000 5.0000 5.0000	Volume (Mcf) 401,254 391,522 385,419	Calc. Meth AGA7 Heating Value (Btu/scf) 1033.4 1032.4 1036.6	Energy (MMBtu) 414,672 404,225 399,530	0.000	_]
Meter Size 42.0000 in. Day 1 2 3 4	Interval 1 Hour Pulses (Counts) 39,242,216 37,580,692 36,747,561 41,695,021	Pressure (psia) 710.48 723.93 727.72 731.44	Temperature (°F) 77.64 78.28 78.37 78.09	Press. Comp Raw Volume (Mcf) 7,848,443 7,516,138 7,349,512 8,339,004	Relative Density 0.587 0.586 0.588 0.588	Comp. Atm K-Factor (pulses/ Mcf) 5.0000 5.0000 5.0000	Volume (Mcf) 401,254 391,522 385,419 440,098	Calc. Meth AGA7 Heating Value (Btu/scf) 1033.4 1032.4 1036.6 1038.5	AGA8-Detail Energy (MMBtu) 414,672 404,225 399,530 457,031	0.000	,
Meter Size 42,0000 in. Day 1 2 3 4 5	Interval 1 Hour Quises (Counts) 39,242,216 37,580,692 36,747,561 41,965,021 46,292,061	Pressure (psia) 710.48 723.93 727.72 731.44 745.85	Temperature (°F) 77.64 78.28 78.37 78.09 78.53	Press. Comp Raw Volume (Mcf) 7,848,443 7,516,138 7,349,512 8,339,004 12,635,668	Relative Density 0.587 0.586 0.588 0.588 0.588 0.592	Comp. <u>Atm</u> (pulses/ Mcf) 5.0000 5.0000 5.0000 5.0000 5.0000	Volume (Mcf) 401,254 391,522 385,419 440,098 499,473	Calc. Meth AGA7 Heating Value (Btu/scf) 1033.4 1032.4 1036.6 1038.5 1043.3	Fpv Method AGA8-Detail Energy (MMBtu) 414,672 404,225 399,530 457,031 521,115	0.000	,]

Using Navigation Menu

Another way to get the daily and hourly measurement volumes is from within the 1Line Navigation menu.

Daily Measurement

To get Daily Measurement from the 1Line Navigation menu:

1. Select: Flowing Gas> Measurement> Daily Measurement.

- To see **Daily** Measured volumes by Flow Date, one or more of the following fields must be populated: **Operator ID**, **Meter ID**, **Location ID**.
- After filling in the desired filters, select **Retrieve** to return measurement and scheduled quantity data

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Home My	y Dashbo	ard Navigation	1▼ +		CONTRACTS CONTRACTS				Gas Mea	isurement (C	GM) 👻 Pipelines 👻	Tool	s 👻 Reports	Print Logoff
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Filters														COLLAPSE A
Operator ID:	Operator ID: Location ID: Meter ID: 1000531 Im OLIAPTERMORTH ENERGY LLC 5000360 11734													
Flow Month	1000521 OUARTERNORTH ENERGY LLC 9002480 Oracle A 210 M1734 1734 Flow Month (MM/YYYY): Ben/End Date: Becipient Prop/Name: Contact Name/Phone:													
01/2023										40115	1/Transco		Lizeth Delagarza/	7132152000
Retrieve		Clear												
Download										Search	successfully completed	Records 1	ound: 8	
Download						Total: 0		Total: 0			Total: 0			
						Total: 0		Total: 0			Total: 0			
Meter Station	Loc ÷	Loc Name	Acct Per	Beg Date (Gas Day)	End Date (Gas Day)	Meas Qty (Dth)	BTU ÷	(MCF)	Meter Source	Stmt Basis 📮	Current Daily Scheduled	Dir Flo	Received Date	Comments 🖕
1734	9002480	GALVESTON 210 M1734	01/01/2023	01/01/2023	01/01/2023	0	0.0	0	Actual	ES	0	Receipt	01/02/2023 10:28:00	From GMS interface
1734	9002480	GALVESTON 210 M1734	01/01/2023	01/02/2023	01/02/2023	0	1.134	0	Actual	ES	0	Receipt	01/03/2023 10:27:39	From GMS interface
1734	9002480	GALVESTON 210 M1734	01/01/2023	01/03/2023	01/03/2023	0	1.134	0	Actual	ES	0	Receipt	01/04/2023 10:47:30	From GMS interface
1734	9002480	GALVESTON 210 M1734	01/01/2023	01/04/2023	01/04/2023	0	1.134	0	Actual	ES	0	Receipt	01/05/2023 11:10:36	PM rolled over Measured Qty

Hourly Measurement

To get **Hourly** Measurement from the 1Line Navigation menu:

- 1. Select: Flowing Gas> Measurement> Hourly Measurement.
 - To see **Hourly** Measured volumes **by Flow Date**, one or more of the following fields must be populated: **Operator ID**, **Meter ID**, **Location ID**.
 - After filling in the desired filters, select **Retrieve** to return measurement and scheduled quantity data

Williams.			7/18	PRE PROD								AĮ.		
Home My Dashbo	oard Navig	ation - +						Gas Measureme	nt (GM) -	Pipelines -	Tools 👻	Reports	Print	Logoff
Hourly Measurement Flowing Gas> Measure	ment> Hourly Me	easurement											COOL	LAPSEA
	Operator ID: Location ID: Hour:	09:00	•					Meter ID: Effective Date:	01/10/2023					
Retrieve	Clear		This information	i is provided for o	operational and	I monitoring pu	rposes only a	nd not for custod	y transfer p	urposes.				

Parent/Child Summary

This page is available to operators who manage aggregated meters (Meter(s) to Nominatable Location). The information displayed is a monthly page summarizing daily volumes of each child meter as an "add" or "deduct" quantity to parent location's total quantity. It includes a Difference (Diff) column when the child meters have been updated but the aggregation batch has not yet been updated. The Process Measurement batch currently runs twice a day.

To get **Parent/Child** Summary from the 1Line Navigation menu:

- 1. Select: Flowing Gas> Measurement> Parent/Child Summary.
 - To see **Parent/Child** Summary **by Parent Location ID**, **Accounting Period** one or more of the following fields must be populated: Flow Month or Flow Date
 - After filling in the desired filters, select **Retrieve** to return measurement and scheduled quantity data

Operator:	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	990001 XYZ LDC CORP	
Mtr/Loc:	9000001	1111 / 1000001	2222 / 1000002	3333 / 1000003	4444 / 1000004	5555 / 1000005	6666 / 1000006	7777 / 1000007	8888 / 1000008	9999 / 1000009	0001 / 900000	0002 / 9000001	
Location Name	XYZ LDC	M1111 CEN	M2222 LAK	M3333 LAK	M4444 LAG	M5555 NEW	M6666 NEW	M7777 BOW	M8888 GRA	M9999 DEF	M0001 COR	M0002 MA	
Relation:	Parent	Child	Child	Child	Child	Child	Child	Child	Child	Child	Child	Child	
Action:		Add	Deduct	Add	Deduct	Deduct	Add	Deduct	Deduct	Deduct	Deduct	Add	
Totals:	13,477,809	8,818,982	(235,657)	62,590	(357)	(537,639)	492,461	(1,819)	(8,177)	(44)	(72,849)	4,960,318	
Gas Day	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Qty (Dth)	Diff (Dth)
09/01/2013	458,665	278,806	(5,119)	523	(37)	(73)	45,139	(32)	(28)	(1)	(2,521)	142,008	0
09/0 <mark>2/2</mark> 013	488,210	302,089	(3,834)	5,955	(53)	(0)	39,514	(36)	(10)	(0)	(2,642)	147,227	0
09/03/2013	511,502	350,922	(6,739)	1,692	(41)	(2,438)	32,486	(36)	(314)	(0)	(2,690)	138,660	0
09/04/2013	486,362	357,452	(13,194)	14	(4)	(570)	33,810	(35)	(628)	(0)	(2,607)	112,124	0
09/05/2013	443,983	305,788	(14,522)	29	(3)	(0)	33,772	(37)	(432)	(1)	(2,569)	121,958	0
09/06/2013	410,745	217,856	(16,445)	0	(0)	(0)	35,059	(35)	(159)	(0)	(2,415)	176,884	0
09/07/2013	372,409	184,268	(5,940)	0	(2)	(55)	25,511	(38)	(28)	(1)	(3,024)	171,718	0
09/08/2013	450,455	250,901	(6,312)	0	(48)	(0)	31,642	(44)	(270)	(0)	(1,142)	175,728	0
09/09/2013	460,554	251,949	(4,448)	2,609	(0)	(0)	44,052	(40)	(430)	(0)	(2,467)	169,329	0
09/10/2013	623,436	413,701	(12,249)	3,244	(0)	(8,150)	14,645	(38)	(468)	(1)	(2,346)	215,098	0
09/11/2013	738,319	482,314	(8,888)	5,829	(12)	(1,375)	22,861	(42)	(490)	(0)	(2,446)	240,568	0
09/1 2/2 013	683,711	419,982	(5,023)	4,923	(84)	(513)	35,848	(40)	(305)	(1)	(2,099)	231,023	0

Please contact your Commercial Services Representative with any Measurement questions.