

IRP Workshop

February 25, 2014

- February 25th
 - IRP Schedule
 - Review of IRP Order
 - December 5th Weather Event
 - Wexpro II
 - Master Planning of System

2014 IRP Schedule

- April 2nd
 - Gas Control Coordination
 - Clean Air
 - Heating Season Review
 - Monticello Event

2014 IRP Schedule

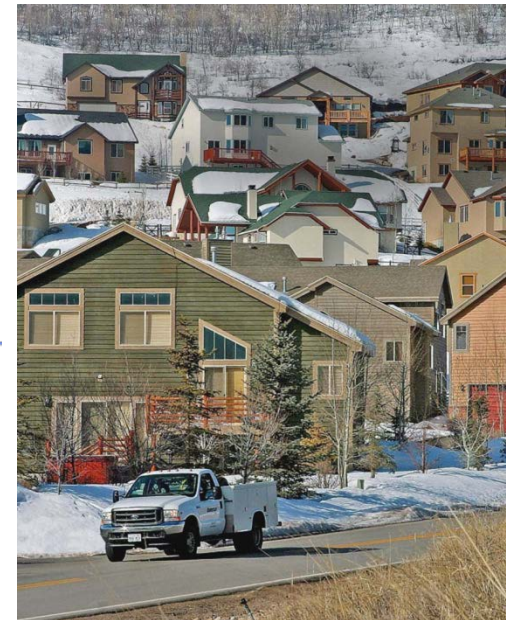
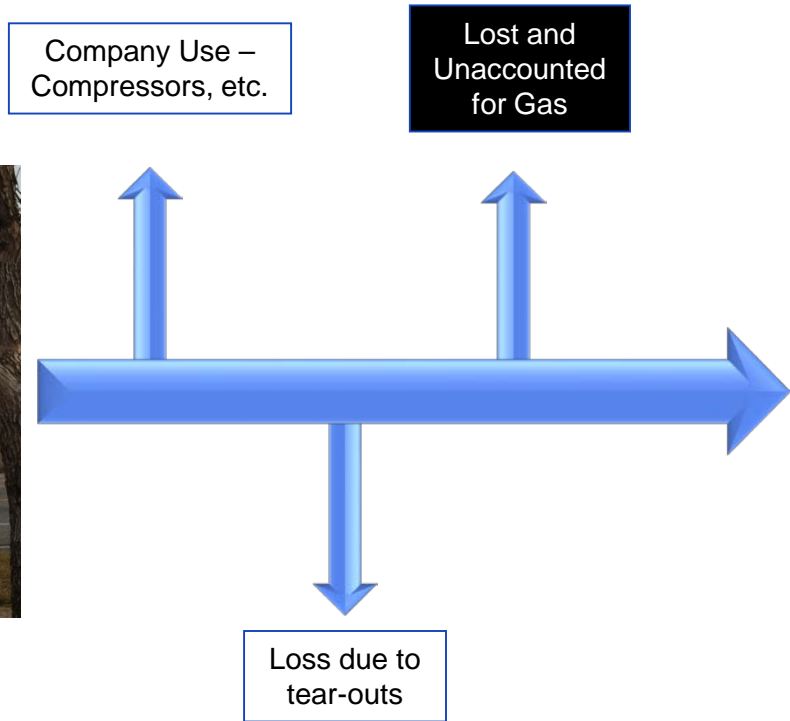
- April 30th
 - Annual Demand & Peak Day Forecasting (Impact of Energy Efficiency)
 - Report on Lakeside
 - Review RFP
- June 25th
 - Present IRP to Utah PSC

Review of IRP Order

- Wexpro Gas
- Need for New Capacity
- Impact of Energy Efficiency (EE) Programs on Peak Demand
- Lost-and-Unaccounted for Gas (LAUF)

Definition

“The difference between the gas injected into a distribution system and the gas measured at customers’ meters.”



Possible Causes – NRRI Report June 2013

- Pipe Leaks
- Measurement Error
 - Temperature and pressure difference
 - Heat value conversion
 - Meter inaccuracies
- Accounting error
- Company use
- Third-party damage
- Cycle Billing
- Consumption on inactive meters
- Stolen Gas
- “Blowdown”

Calculations – Most Recent IRP

Table 3.5 (page 3-9) in most recent IRP

QGC Estimated Company Use and Lost-and-Unaccounted-For-Gas Calculation
Three Year Rolling Average

Year	QGC Customer Sales	QGC Customer Transport.	Total Receipts	QGC Sales & Transportation	QGC Use Acct. 810&812	QGC Loss Due To Tearouts	QGC Loss & Unaccounted For Gas	Total Sales, Transport, Company Usage and L&U
2009-2010	116,891,696	57,431,097	174,322,793	173,831,634	241,077	23,346	226,736	174,322,793
2010-2011	115,784,799	54,875,429	170,660,228	169,816,873	236,702	16,335	590,318	170,660,228
2011-2012	107,765,322	57,613,566	165,378,888	164,193,992	188,196	23,351	973,349	165,378,888
Total	340,441,817	169,920,092	510,361,909	507,842,498	665,975	63,032	1,790,404	510,361,909

Total Recorded at City Gates

Recorded at customer meters

What we know or can estimate

LAUF

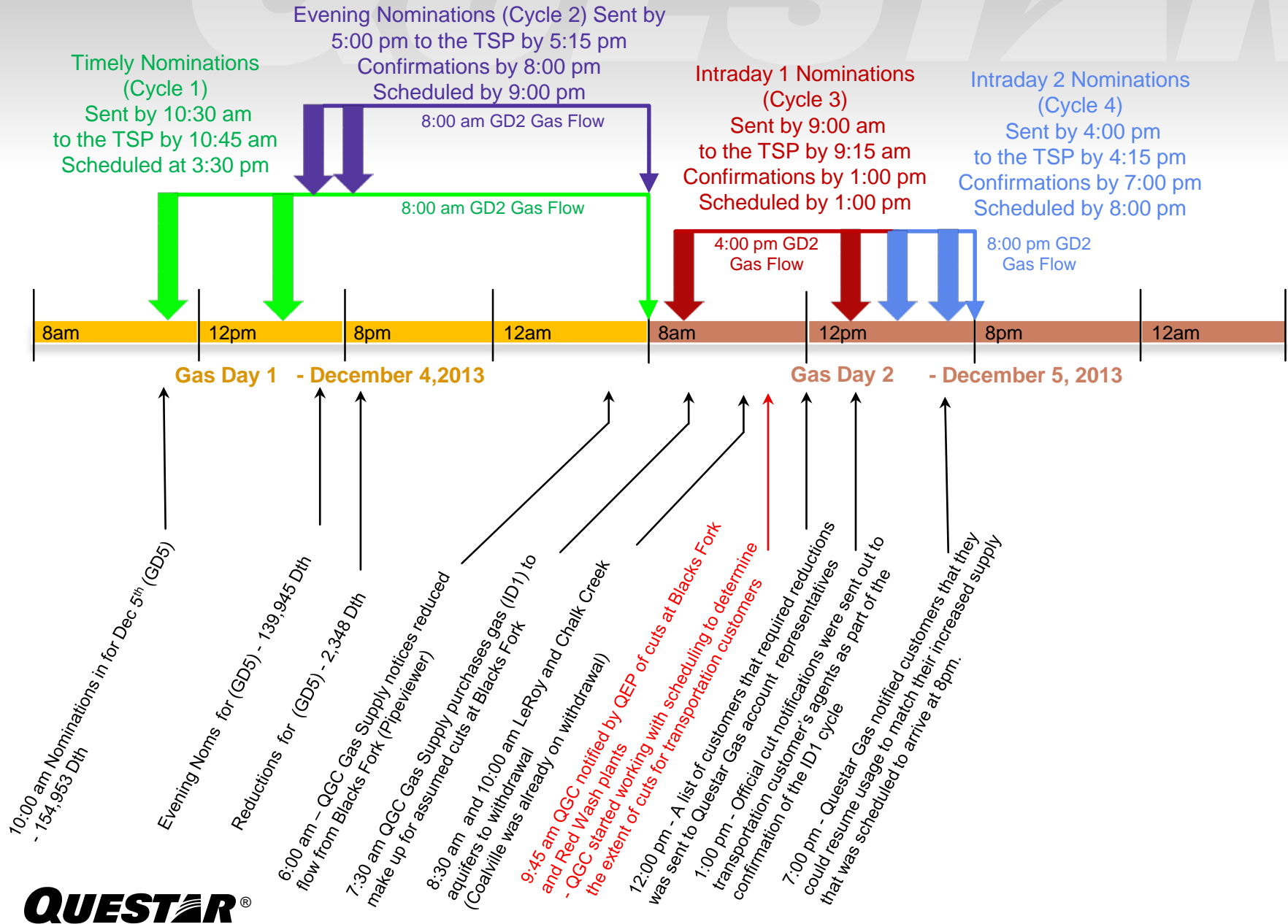
Recent Results

Year	Lost & Unaccounted For	Company Use Lost & Unaccounted For	AGA Lost & Unaccounted for
2006 - 2007	3.23%	3.43%	
2007 - 2008	1.63%	1.78%	
2008 - 2009	.88%	1.06%	1.53%
2009 - 2010	.13%	.28%	1.18%
2010 - 2011	.35%	.49%	.90%
2011 - 2012	.59%	.72%	

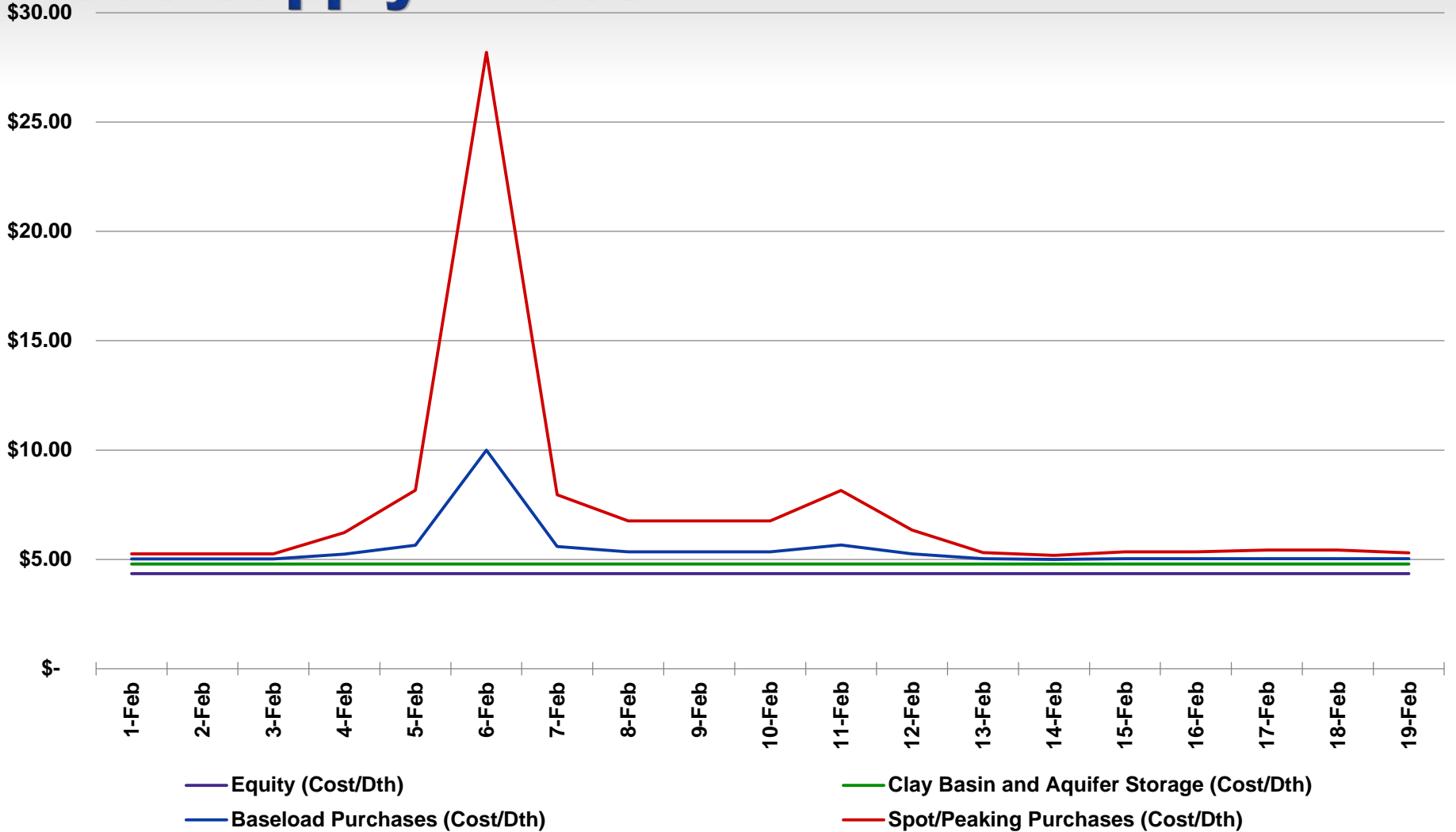
Measures to Decrease LAUF

Source	Company Action
Pipe Leaks	
Measurement Error	
Third-party damage	
Stolen Gas	

December 5, 2013



Wexpro Gas Supply Prices



Wexpro – IRP Order

- What is the maximum manageable percentage of Wexpro production without excess gas?
- What are the costs of excess Wexpro gas?
- What percentage of Wexpro production causes significant increases in shut-ins?
- How much Wexpro gas can feasibly be shut in?

- Trail Unit II became a Wexpro II property as of February 1.
- Wexpro and the Company are tracking and accounting for this property separately.
- Coordinating to establish procedures to sell cost-of-service production
- Potential properties may be available in this low-cost environment.