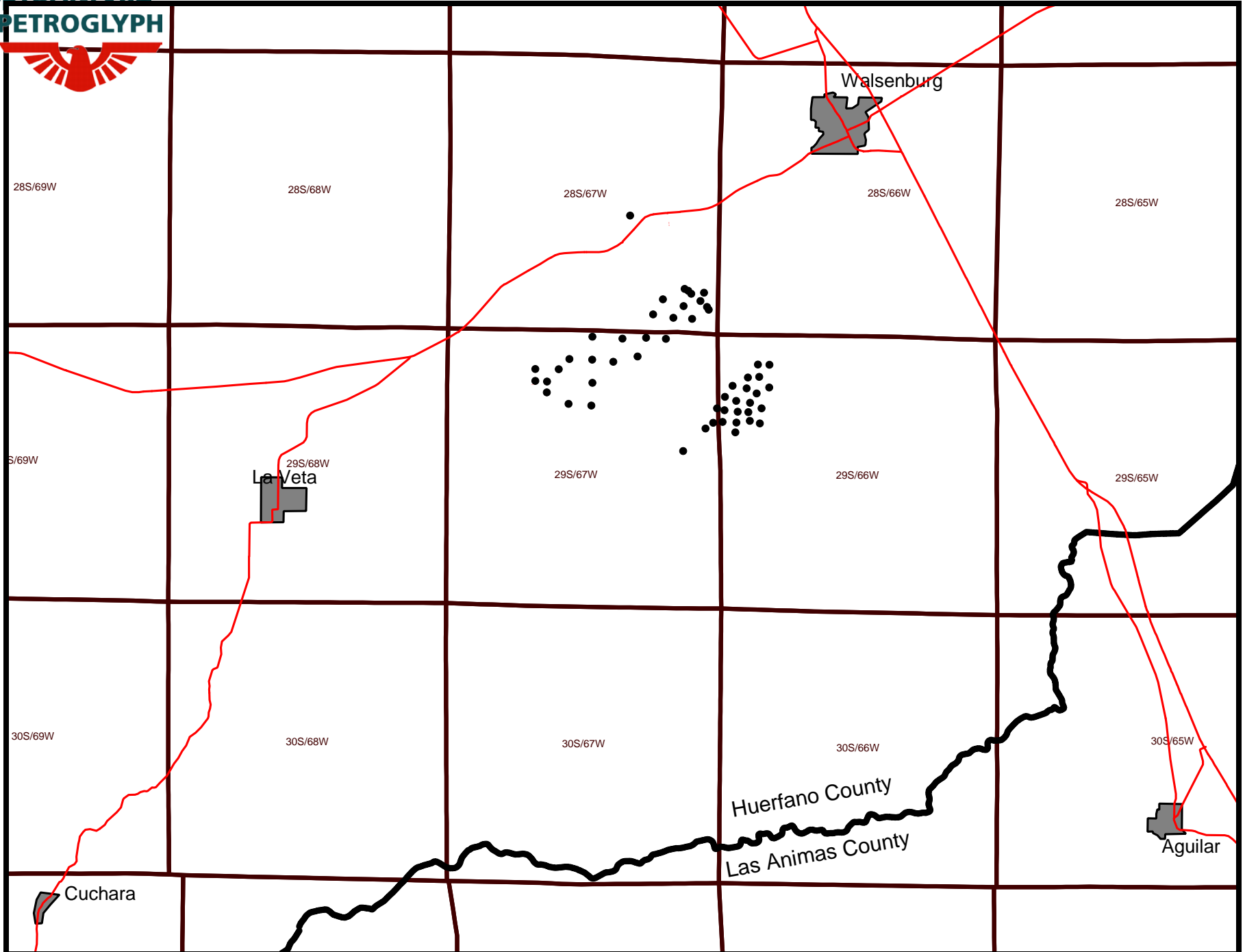


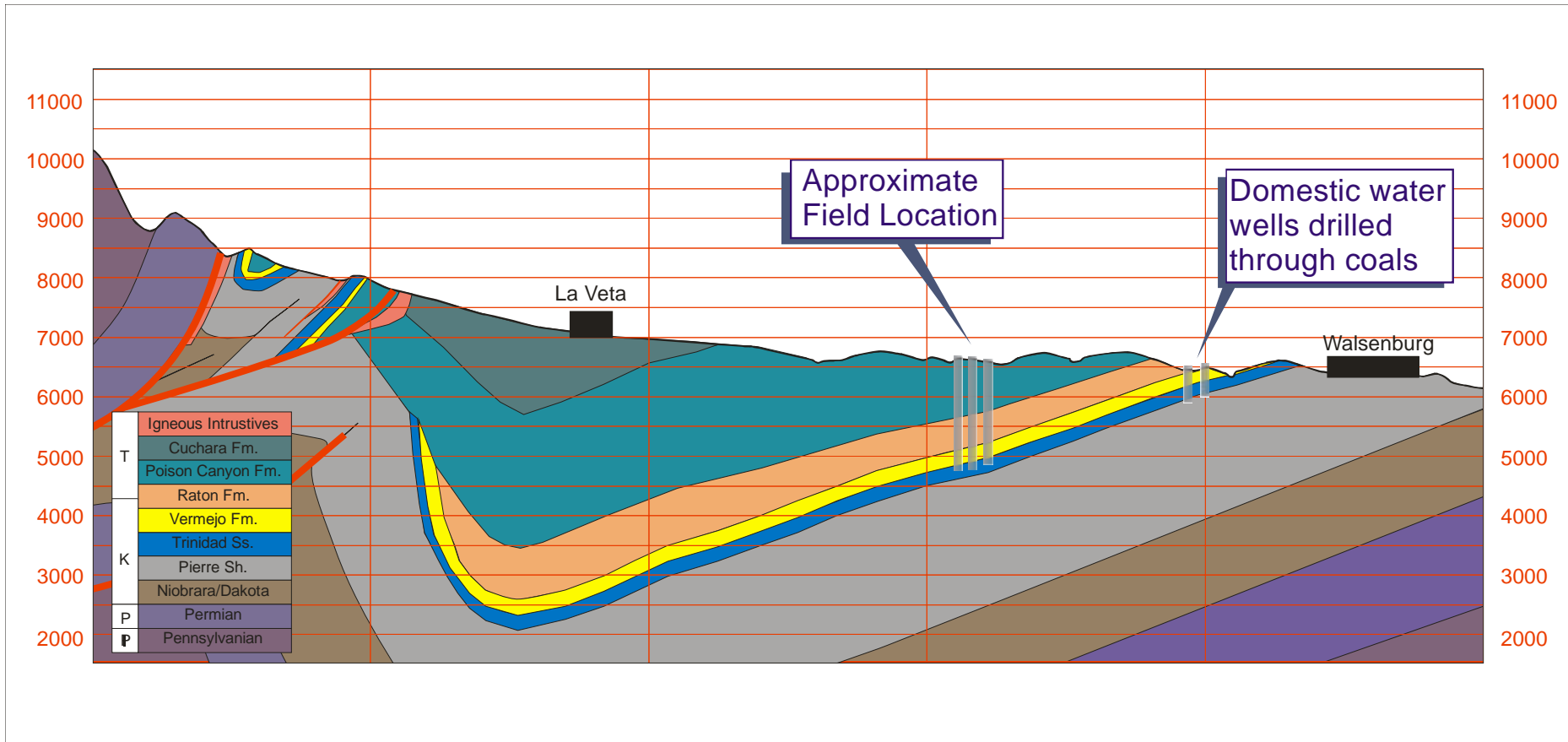
# **Colorado Oil & Gas Conservation Commission**

## **Termination of CBM Operations Northern Raton Basin, Huerfano County, CO**

June 26, 2011



# East-West Cross Section Northern Raton Basin



# **Petroglyph Timeline**

**Mar 1998 – First CBM wells drilled**

**Jul 2007 – Field shut-in at request of COGCC**

**Jan 2008 – Order 1C-6 approves MIMMP**

**Mar 2008 – Recovery wells begin passive venting methane from the Poison Canyon aquifers**

**Dec 2008 – Approval to activate Recovery/Injection system**

**Jul 2010 – Phase 1 complete and approval to begin Phase 2**

**Apr 2011 – Petroglyph decides to terminate CBM operations**

**Jun 2011 – Begin removal of surface and down hole equipment**

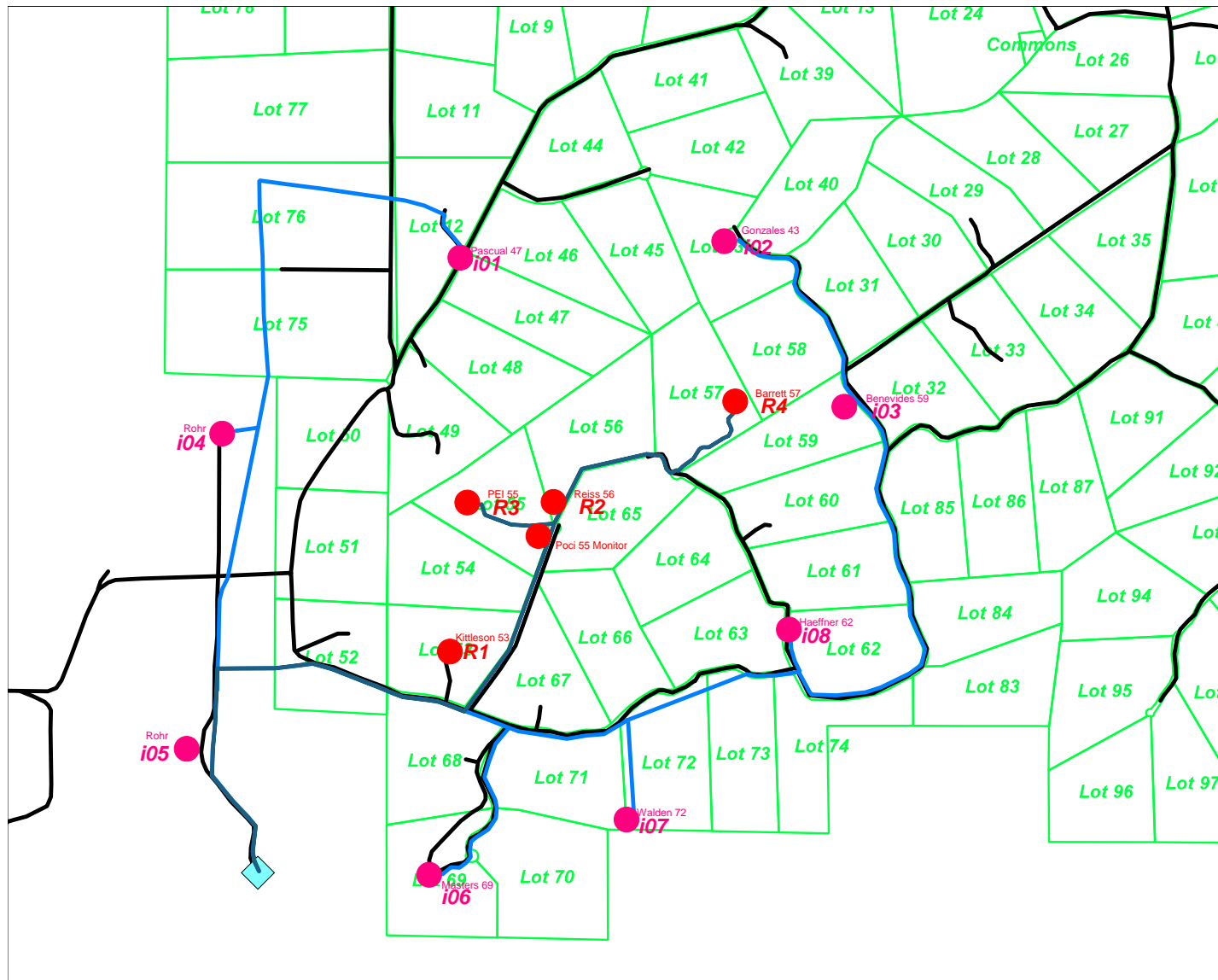
**Sep 2011 – All CBM wells should be plugged and Phase 2 hydraulic barrier and methane removal system shut-down**

**Sep 2012 – Follow up monitoring and reporting should be complete**

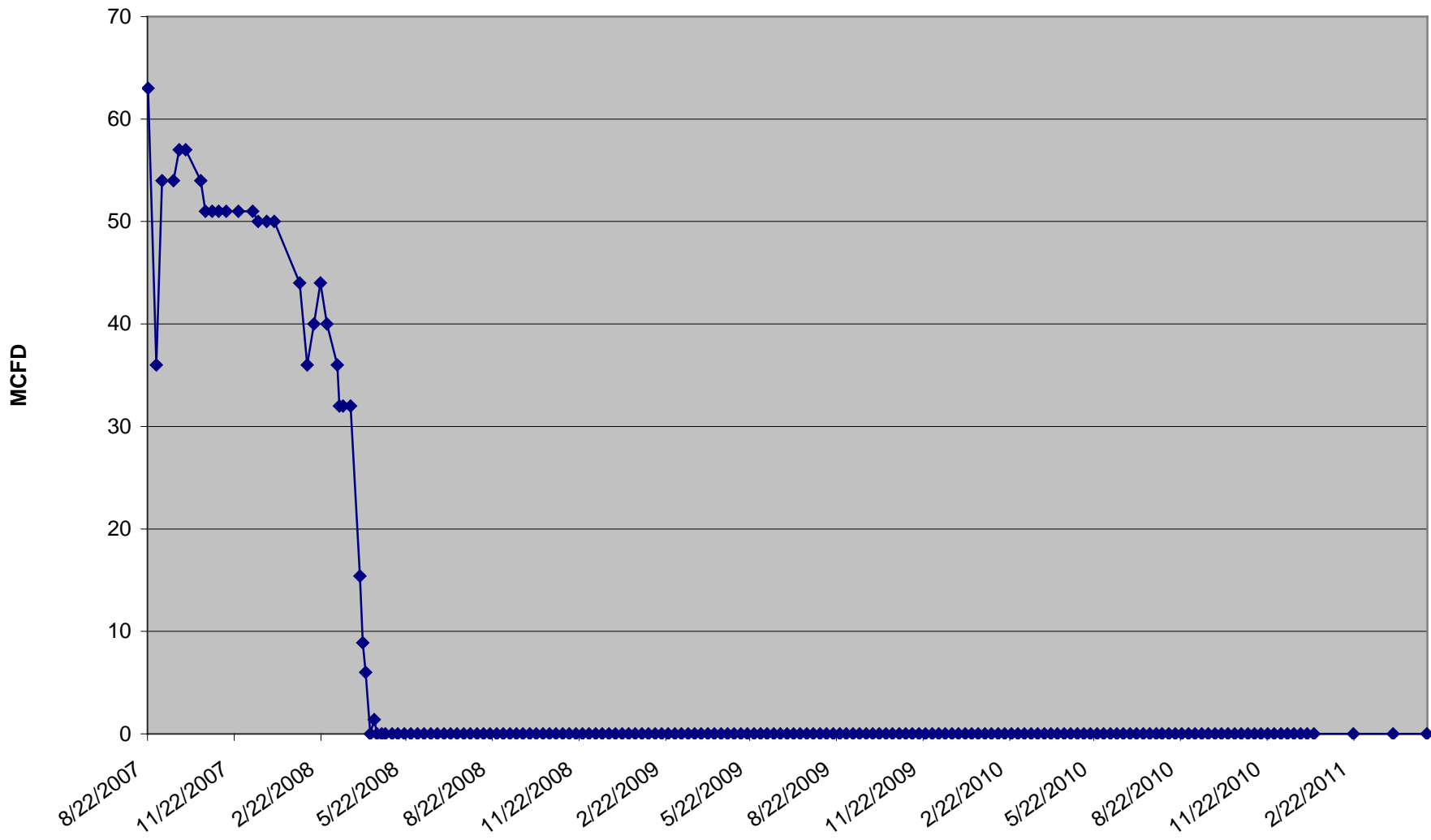
# Order 1C-6 MIMMP

- **Phase 1**
  - Public safety, investigation and monitoring activities
  - Data acquisition and characterization of the Poison Canyon aquifers
  - Initiation and testing of the methane removal system for the Poison Canyon aquifers
- **Phase 2**
  - Initiation of hydraulic barrier and full operation of the methane removal system
  - Public safety, investigation and monitoring activities
- **Phase 3**
  - Reactivation of all 52 CBM wells
  - Public safety, investigation and monitoring activities
  - Upon identification of a methane migration pathway, submit a plan for closure if technically feasible and economically practicable

# Recovery/Injection System Map

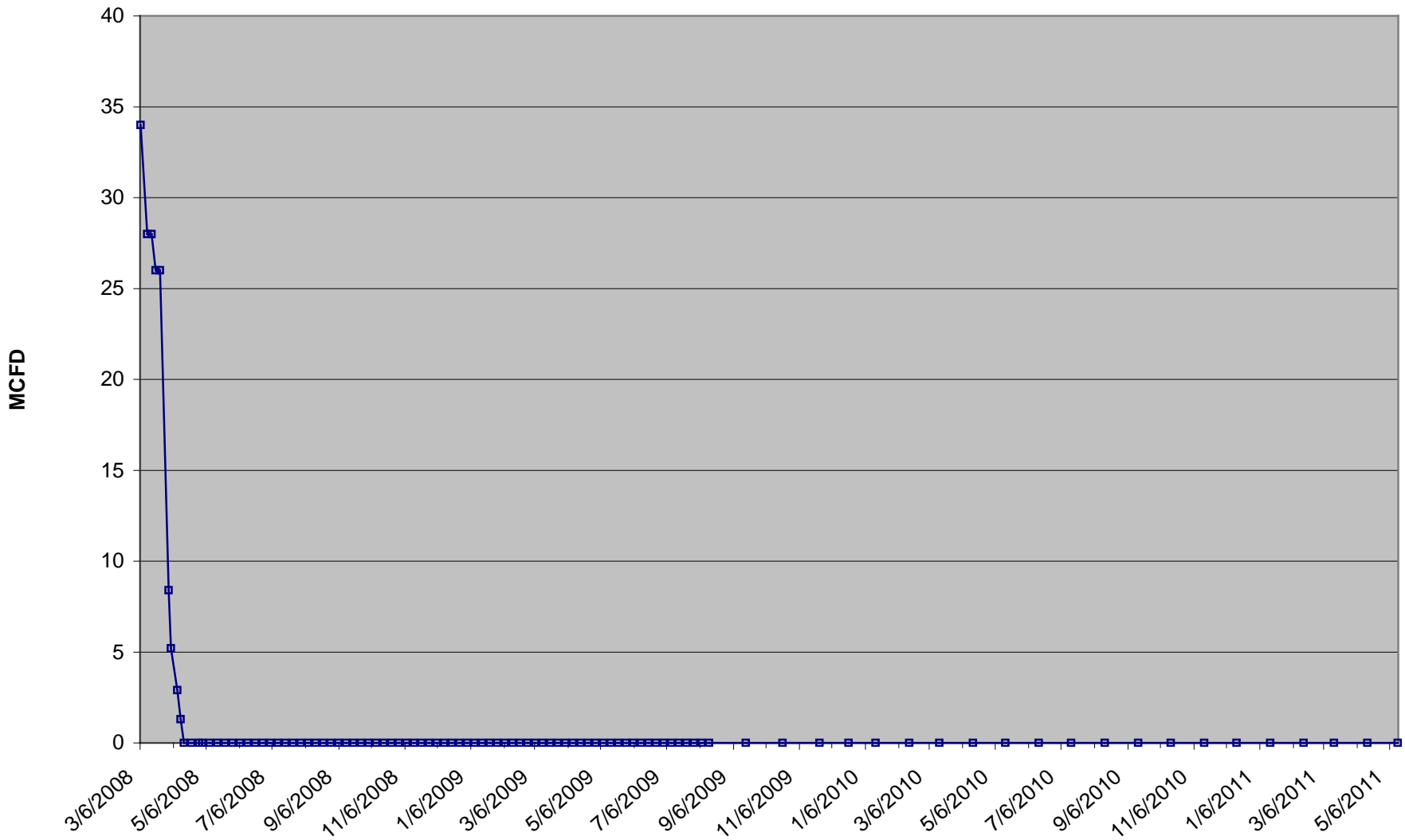


**Smith WW # 239657 Measured Gas Flow  
from 8/22/07 to 5/10/11**

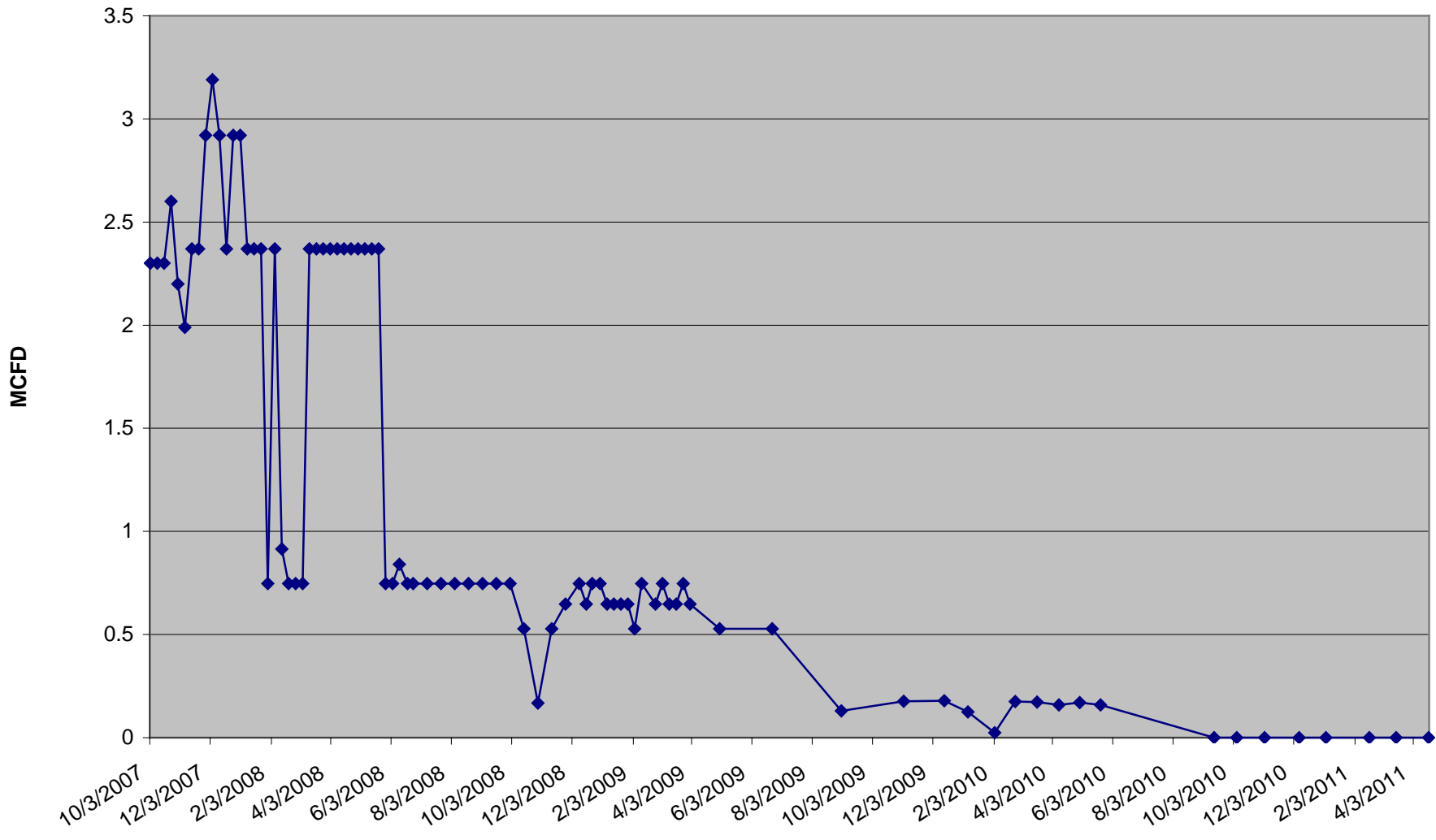




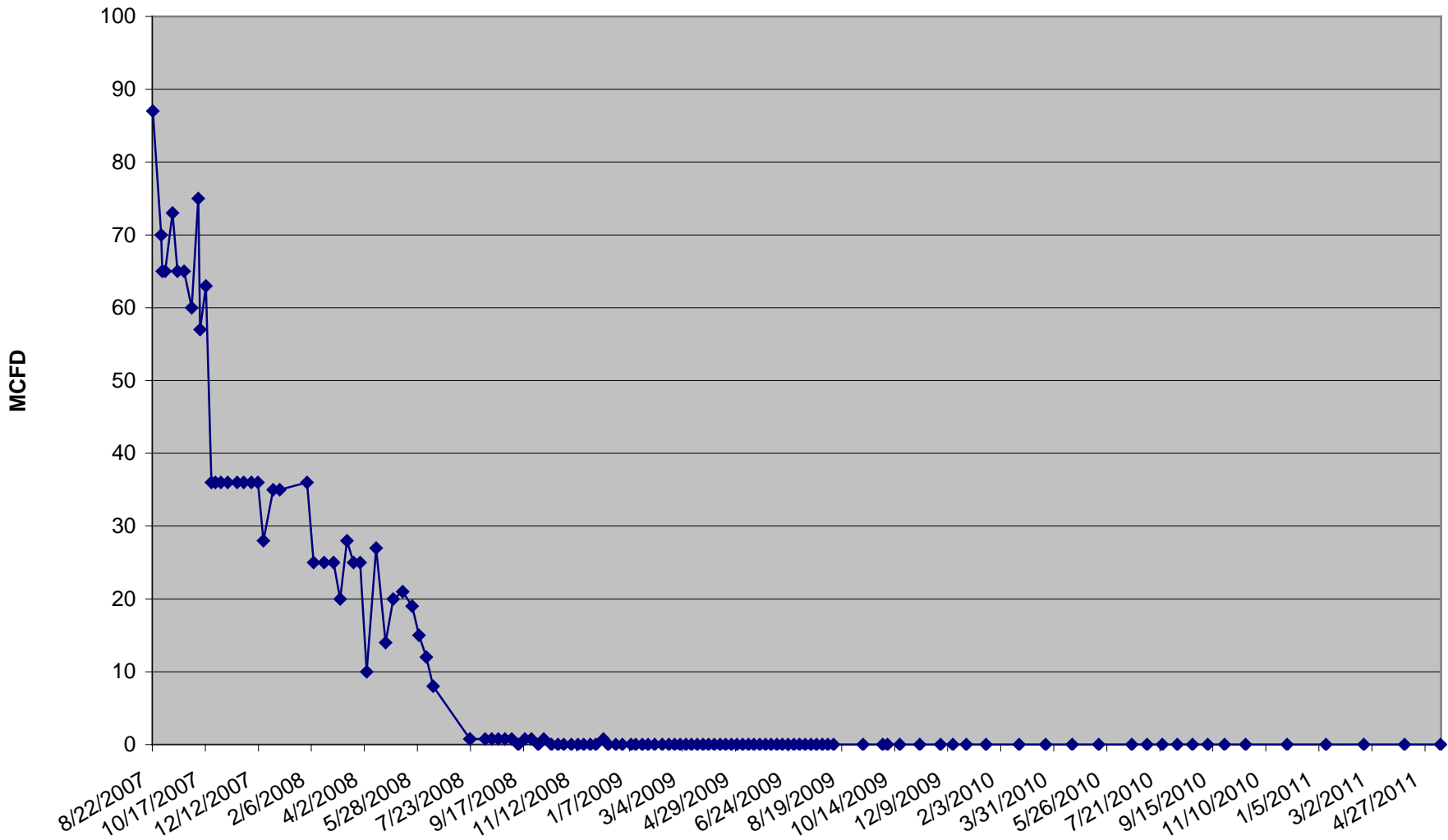
## POCI 55 MW Gas Flow from 3/6/08 to 5/13/11



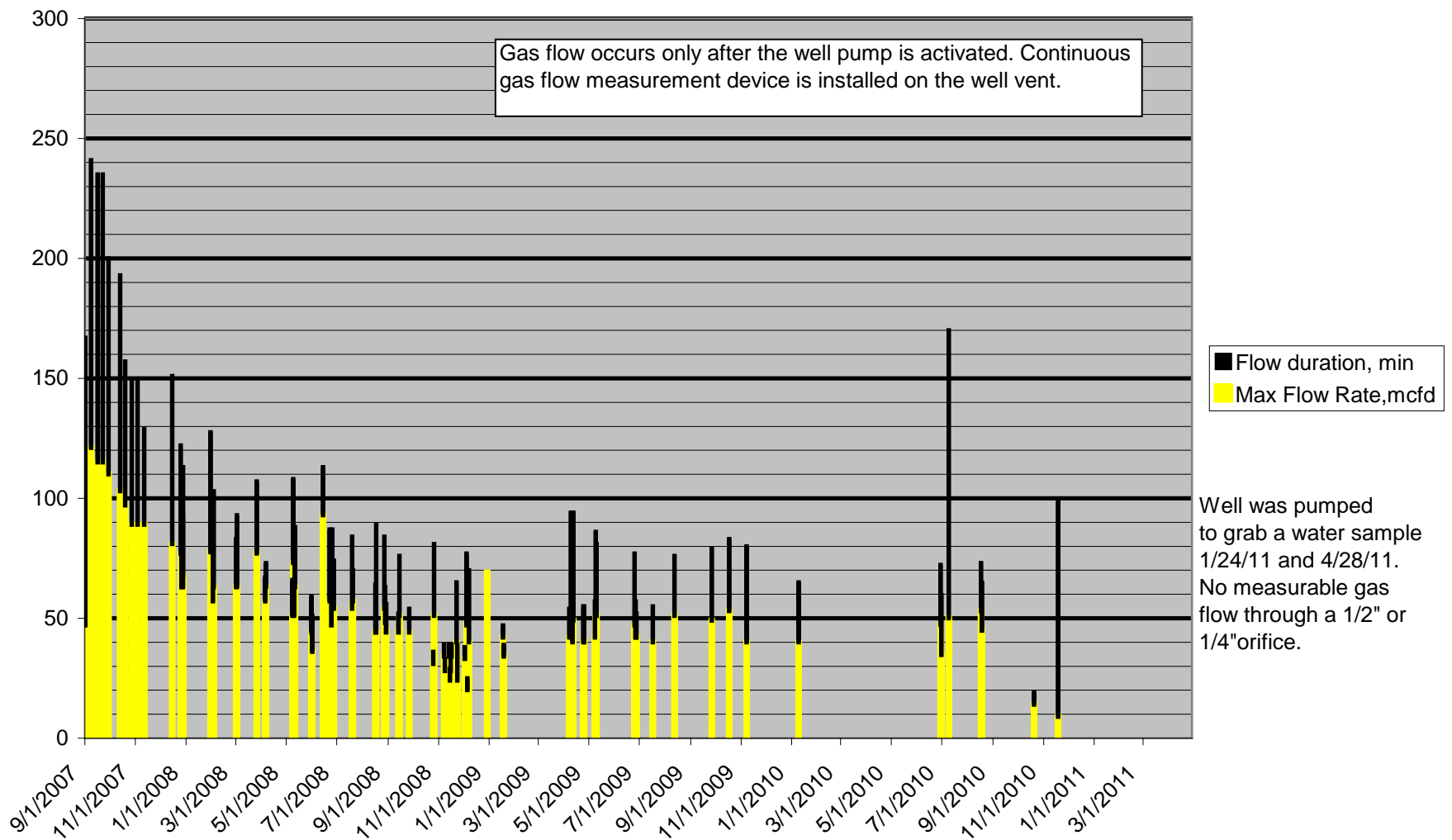
**Bounds WW #181278 Measured Gas Flow  
from 10/3/07 to 4/18/11**



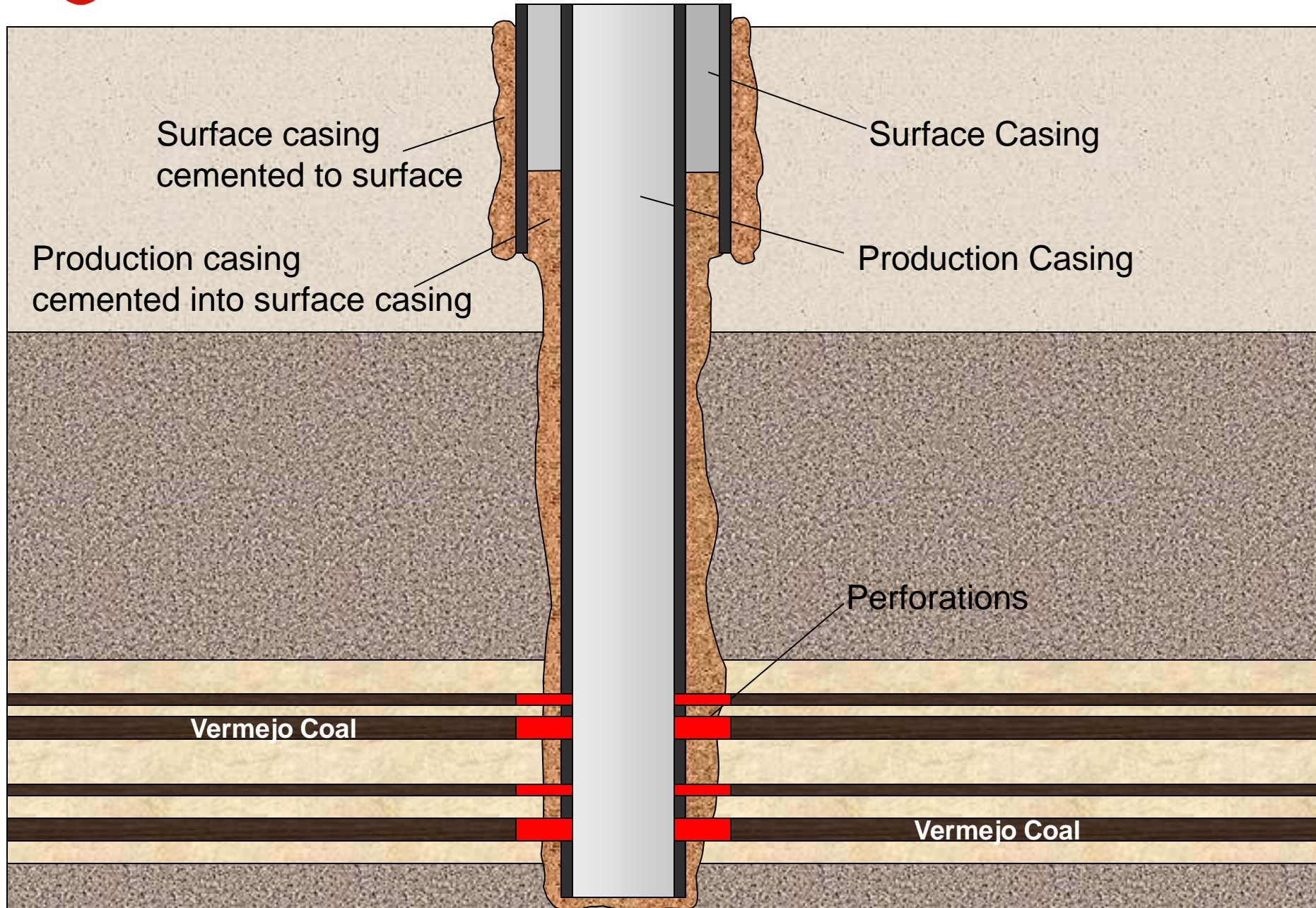
# Bruington WW # 210526 Measured Gas Flow from 8/22/07 to 5/13/11



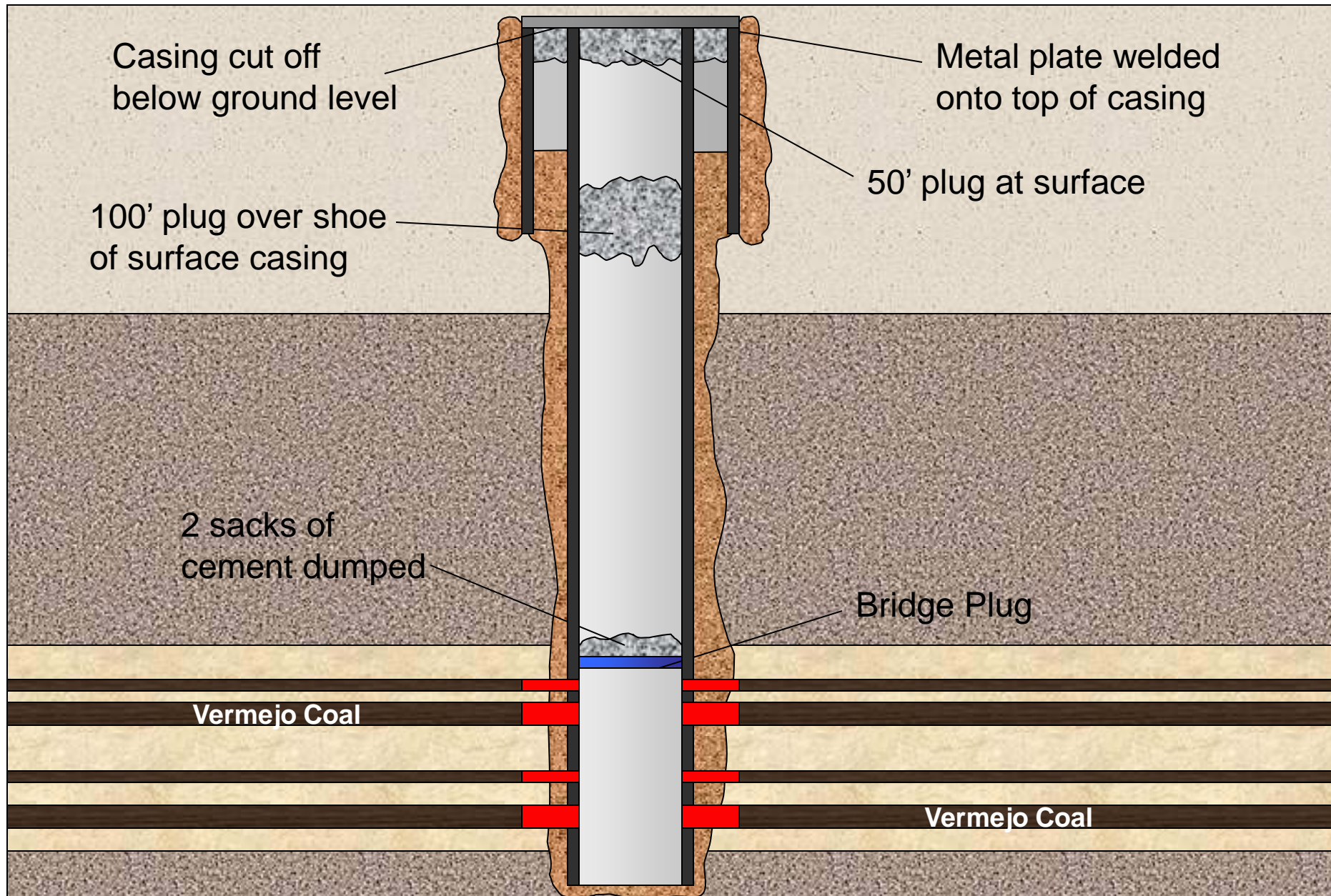
## Coleman WW #267294 Measured Gas Flow from 9/1/07 to 4/28/11



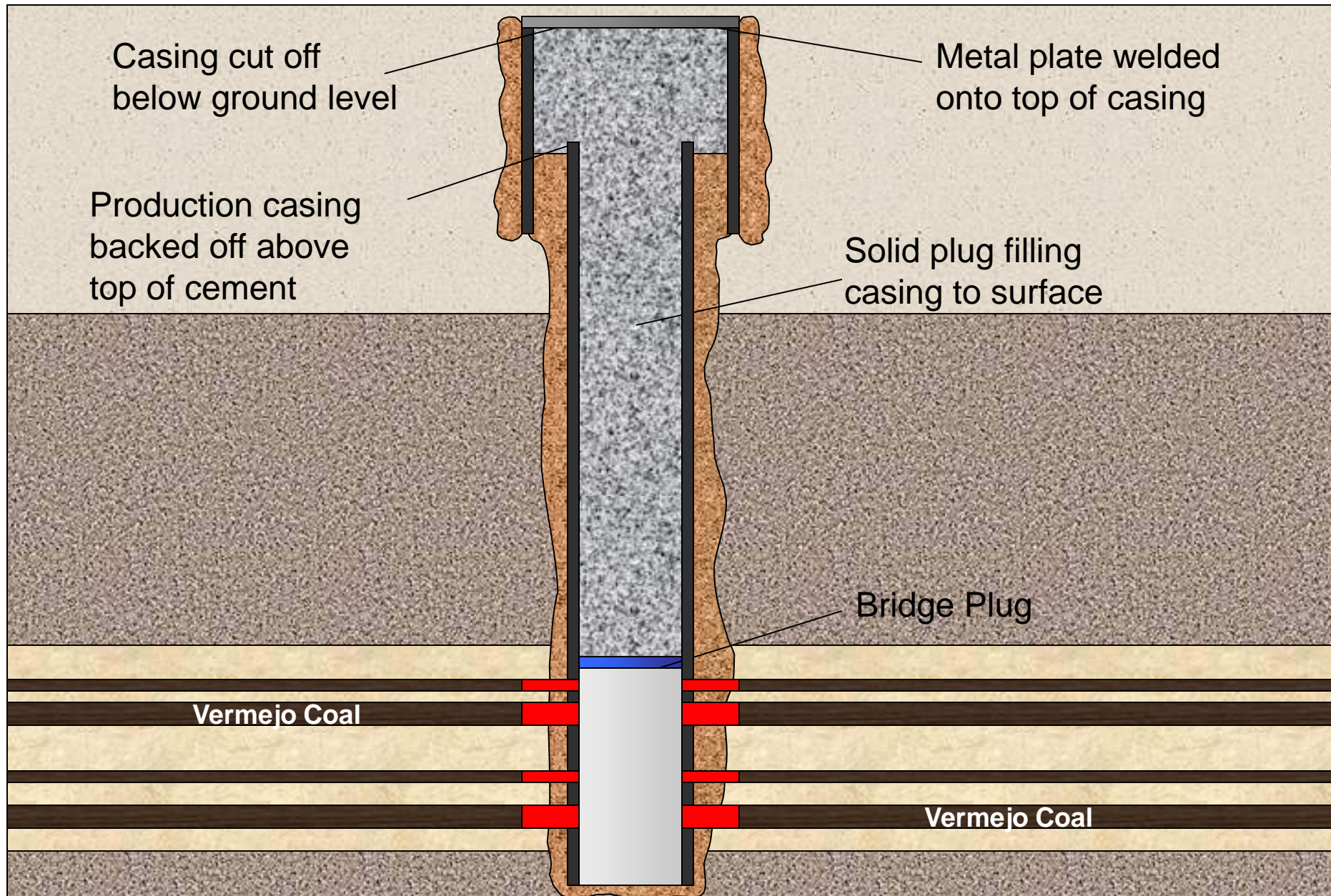
# Current Wellbore



# COGCC minimum plugging requirement



# Petroglyph Abandonment Plan



# PETROGLYPH

