



**ANTERO**  
RESOURCES

## **Battlement Mesa Natural Gas Development Plan**

**Meeting #4**

**Drilling Schedule and Pace**

**August 19, 2009**

# Factors affecting drilling Schedules

- Mineral Lease Obligations
- Natural Gas Pricing and Economics
- Comprehensive Drilling Plan (CDP)
- Garfield County Major Land Use permitting process
- Seasonal Operations – part year vs. year round drilling
- Potential CDOW Timing Limitations and Mitigation Strategies
- Timing of Infrastructure Development
- SIMOPS – Independent vs. Conventional
- Scales of Efficiency - Drilling, Completion, and Pipeline operations
- Operational Areas - concentrated vs. dispersed - impacts

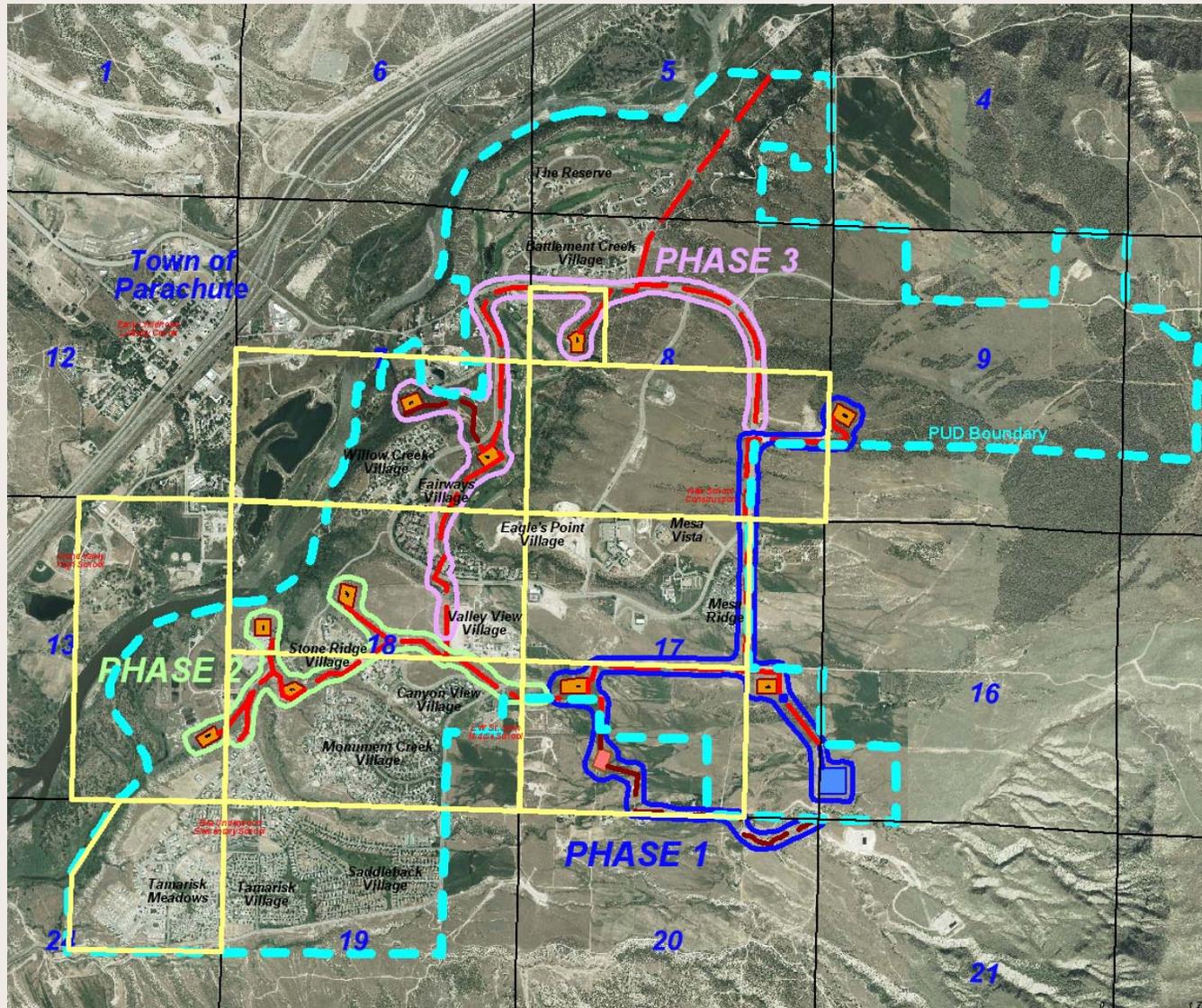
# Battlement Mesa Development Plan



Preliminary Schedule  
Subject to Change

- **Phased Approach – 3 Phases**
  - Split into geographic areas
  - Build-out infrastructure systematically
  - Keeps drilling and completion operations clustered
  - Allows Antero to meet lease obligations
  
- **Discuss Phase 1 today – 3-4 year plan**
  - *PRELIMINARY SCHEDULING – SUBJECT TO CHANGE*
  - Q2 2009 through Q4 2012
  - Antero Phase 1 development philosophy
  - Discussion - BMSAOGC comments to Phase 1 proposal

# Battlement Mesa Development Plan – 3 Phases



Preliminary Schedule  
Subject to Change

## ● Phase 1

- SE portion of PUD – lowest cultural density
- 4 pads and 1 water facility
- Approx 70 10-acre down-hole locations in Phase 1 Area inventory
- Close to sales point at Energy Transfer interconnect
- Access from south
- Will provide opportunity to define deep reservoir potential
- Provides enough well inventory to meet lease obligations

# Battlement Mesa Development Plan – Phase 1

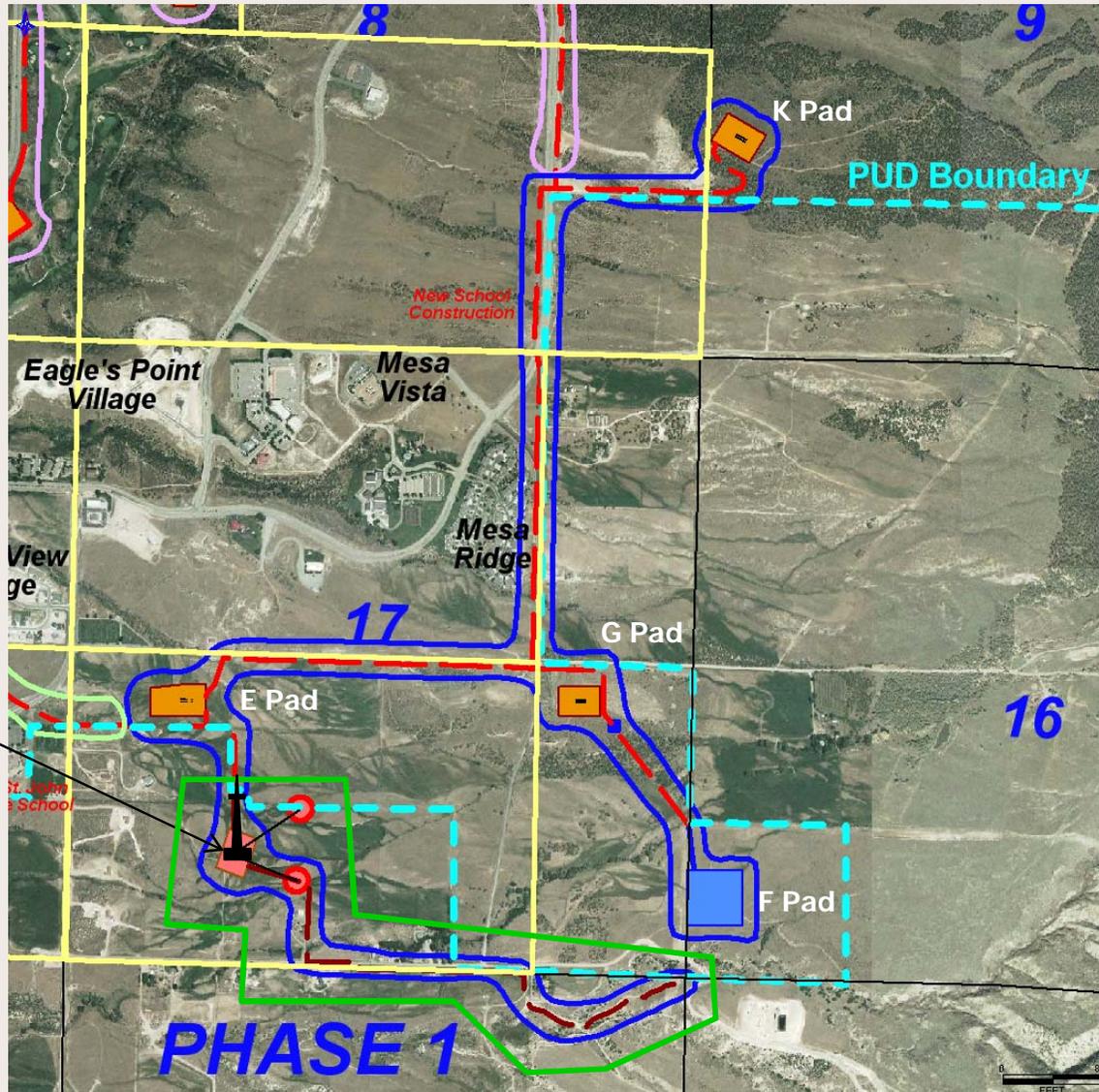


Preliminary Schedule  
Subject to Change

2009  
Q2-Q3

1 Rig

Watson Ranch Pad  
•2 WF/1les wells  
•Pipeline route to the south of PUD



○ = proposed WF/1les  
down-hole location

# Battlement Mesa Development Plan – Phase 1



(Antero predicts no activity for 5-6 months after first 2 wells)

Preliminary Schedule  
Subject to Change

**2010  
Q2-Q4**

**1 Rig**

Watson Ranch Pad

•1 Mancos well

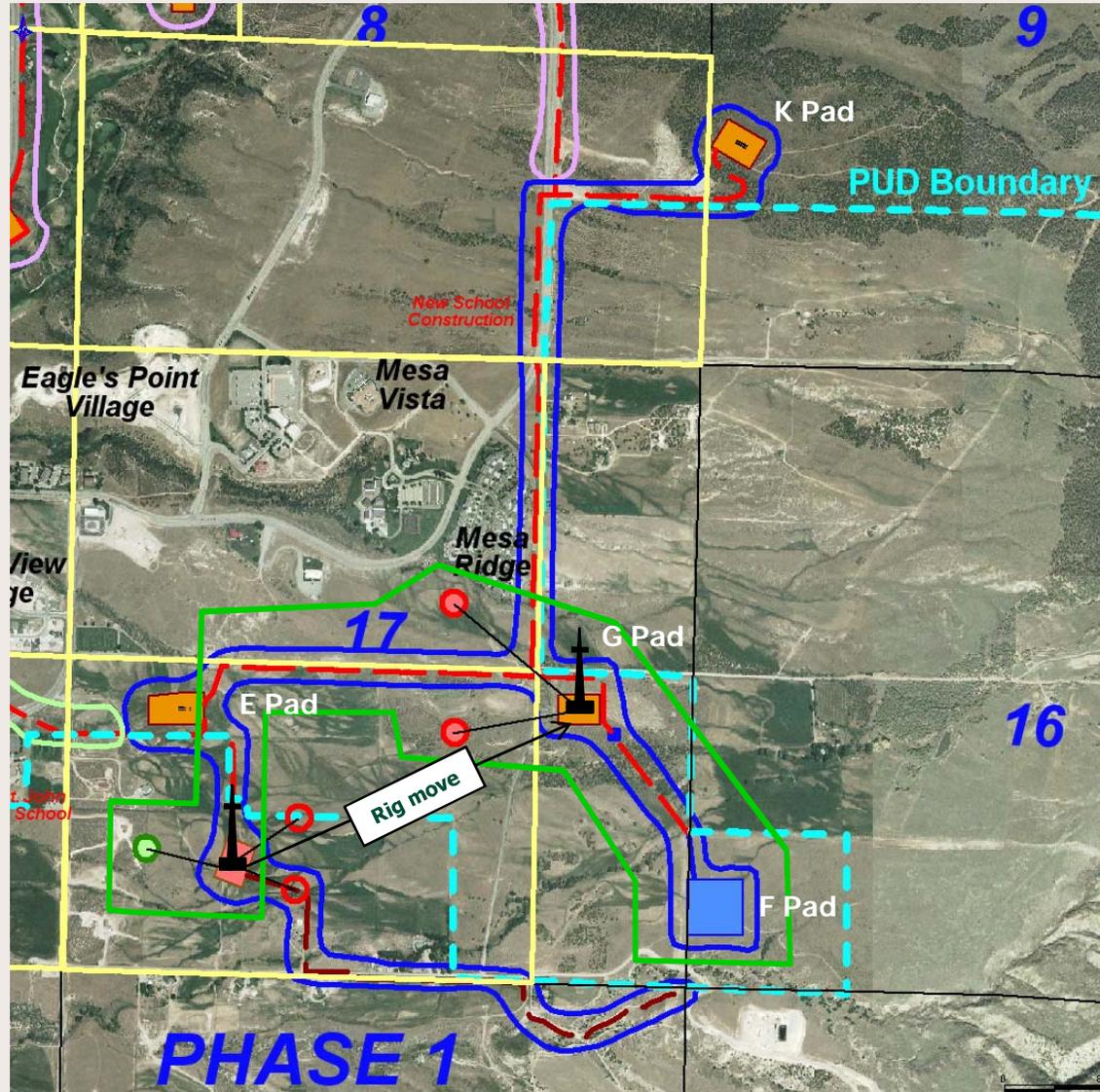
Build G Pad

•2 WF/11es wells

Build Water Facility

Build Pipeline

North from Watson pad, through E pad, east to G pad, and south to Water Facility



- = proposed WF/11es down-hole location
- = drilled WF/11es down-hole location
- = proposed Mancos down-hole location

# Battlement Mesa Development Plan – Phase 1



Preliminary Schedule  
Subject to Change

2011  
Q1

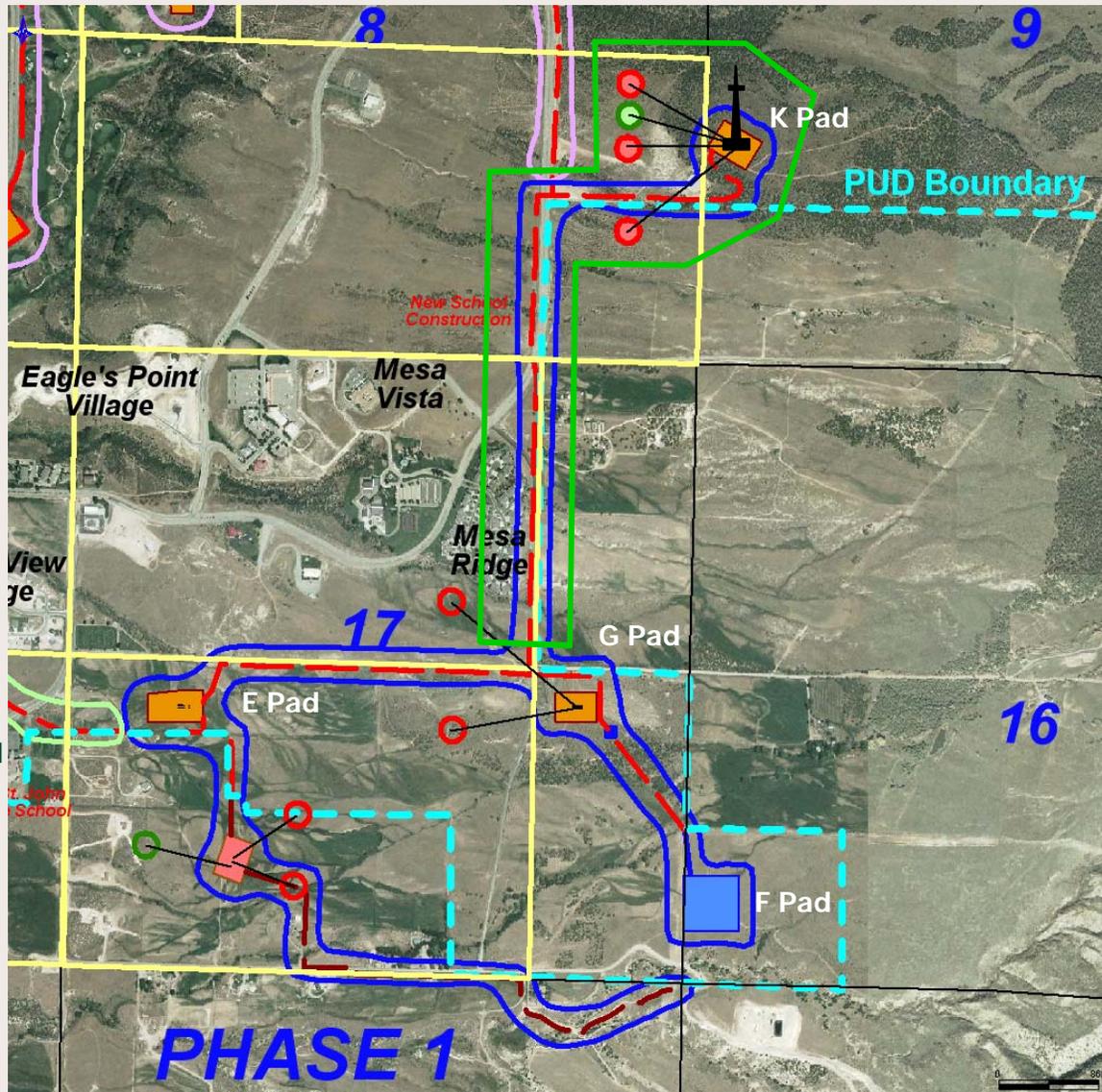
1 Rig

**Build K Pad**

- 1 Mancos well
- 3 WF/Iles wells

**Build Pipeline**

North from G pad to K pad



- = proposed WF/Iles down-hole location
- = drilled WF/Iles down-hole location
- = proposed Mancos down-hole location
- = drilled Mancos down-hole location

# Battlement Mesa Development Plan – Phase 1



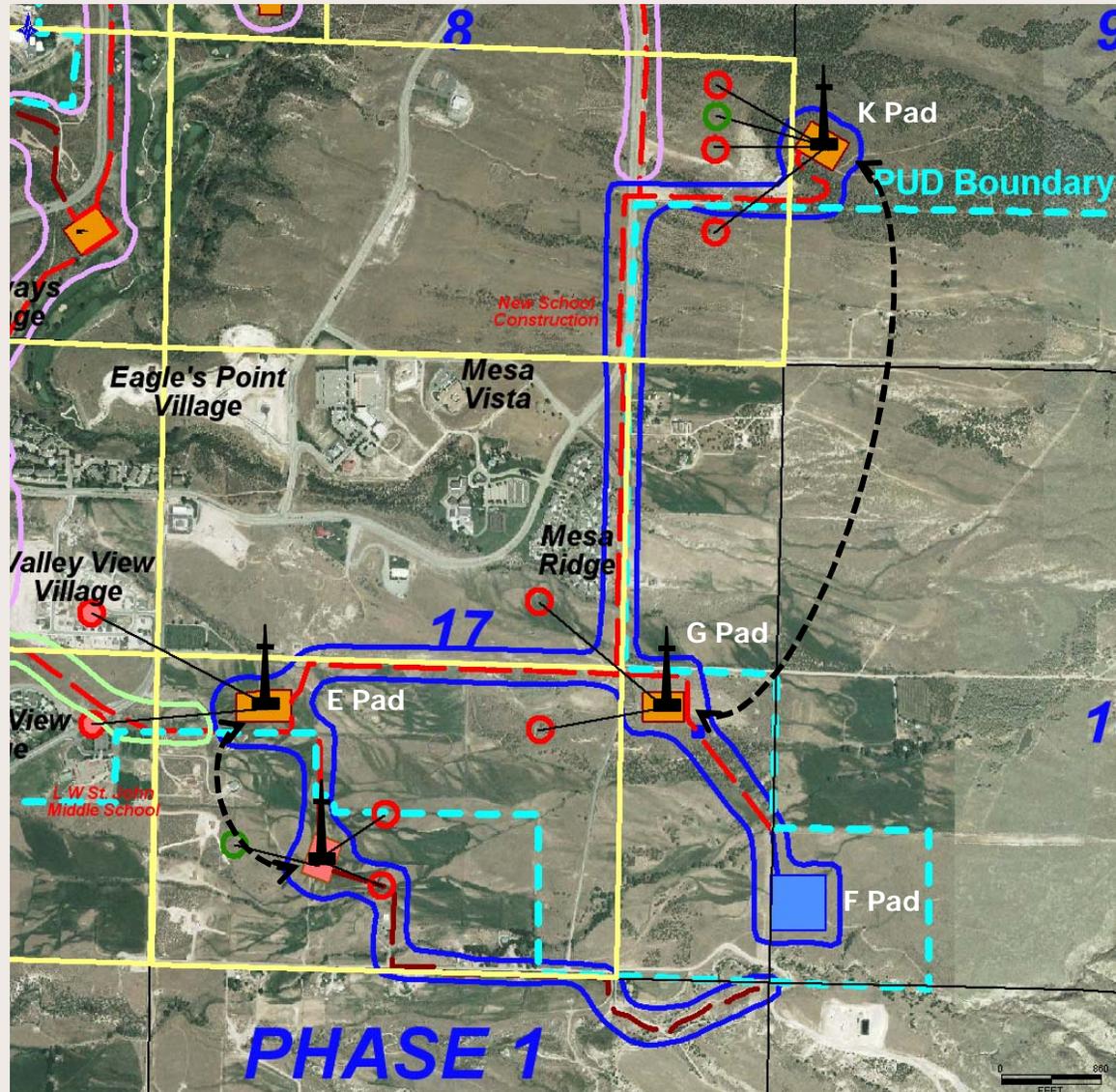
Preliminary Schedule  
Subject to Change

2011  
Q2-Q4

2 Rigs

**Build E Pad**

- 2 WF/11es wells
- Remainder of 2011 drilling program will depend on results of Mancos test wells. Number of wells and reservoir targets is yet to be determined.
- Rig #1 will develop E pad and Watson pad
- Rig #2 will develop G pad and K pad



- = proposed WF/11es down-hole location
- = drilled WF/11es down-hole location
- = proposed Mancos down-hole location
- = drilled Mancos down-hole location

## ● Phase 1 - Summary

- After Q1 2011, there will be approximately 60 wells remaining in Phase 1 inventory – 10-acre density
  - Scenario 1 - If Mancos test wells prove economic
    - 2 rig program finishes 60 Mancos wells in 1.75 years (Q4 2012)
  - Scenario 2 - If Mancos test wells prove uneconomic
    - 2 rig program finishes 60 WF wells in .8 years (Q1 2012)
  - Scenario 3 – Mancos needs longer production history to understand performance – drill ½ the remaining inventory in Phase 1 area
    - 2 rig program drills 30 Mancos wells on a 20-acre pattern in .9 years (Q2 2012)

# Discussion