



Piceance Operation

A Path to Success

2009 AADE Mid Continent Chapter Symposium

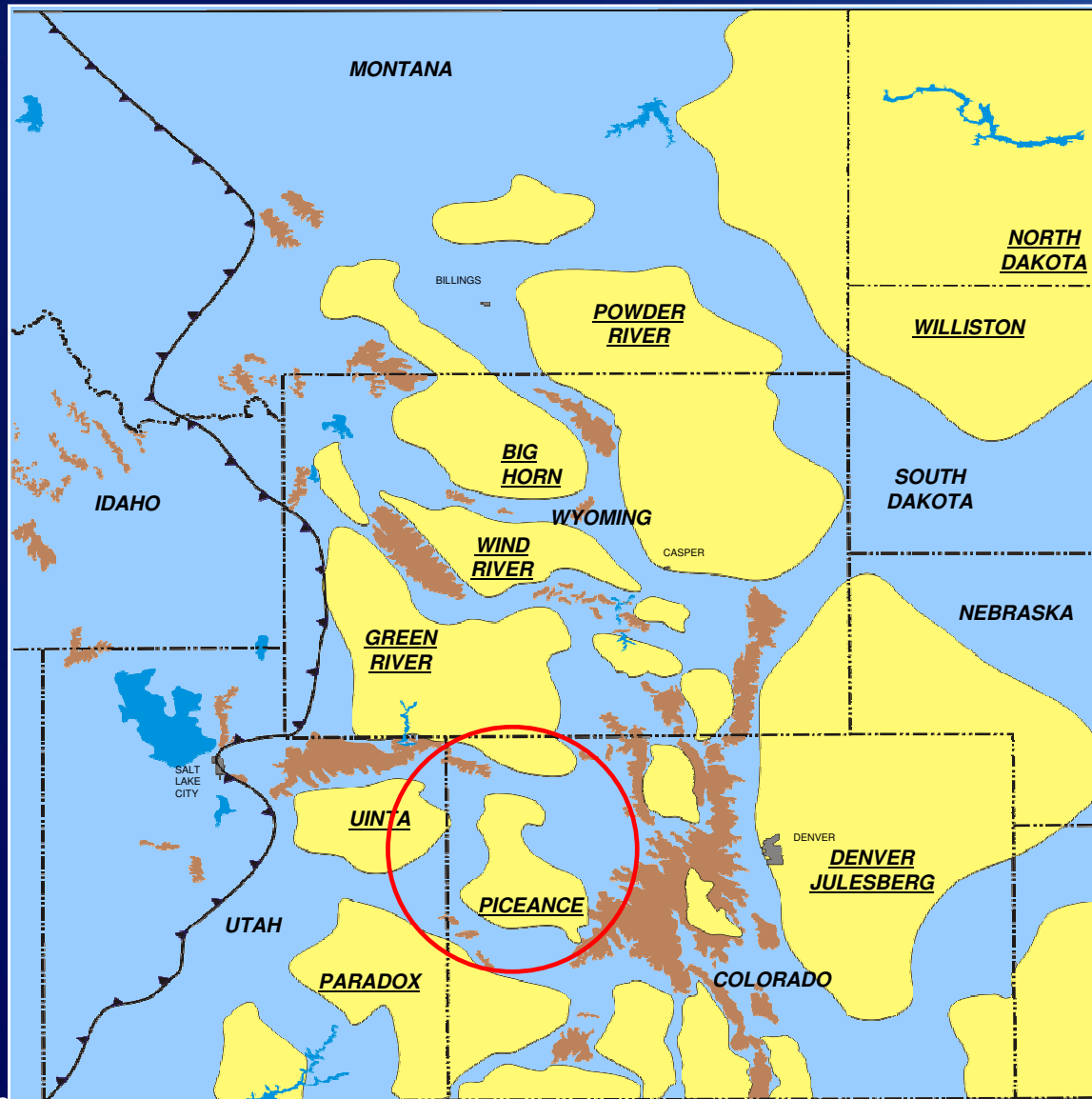
14 Jan 2009

Don Day

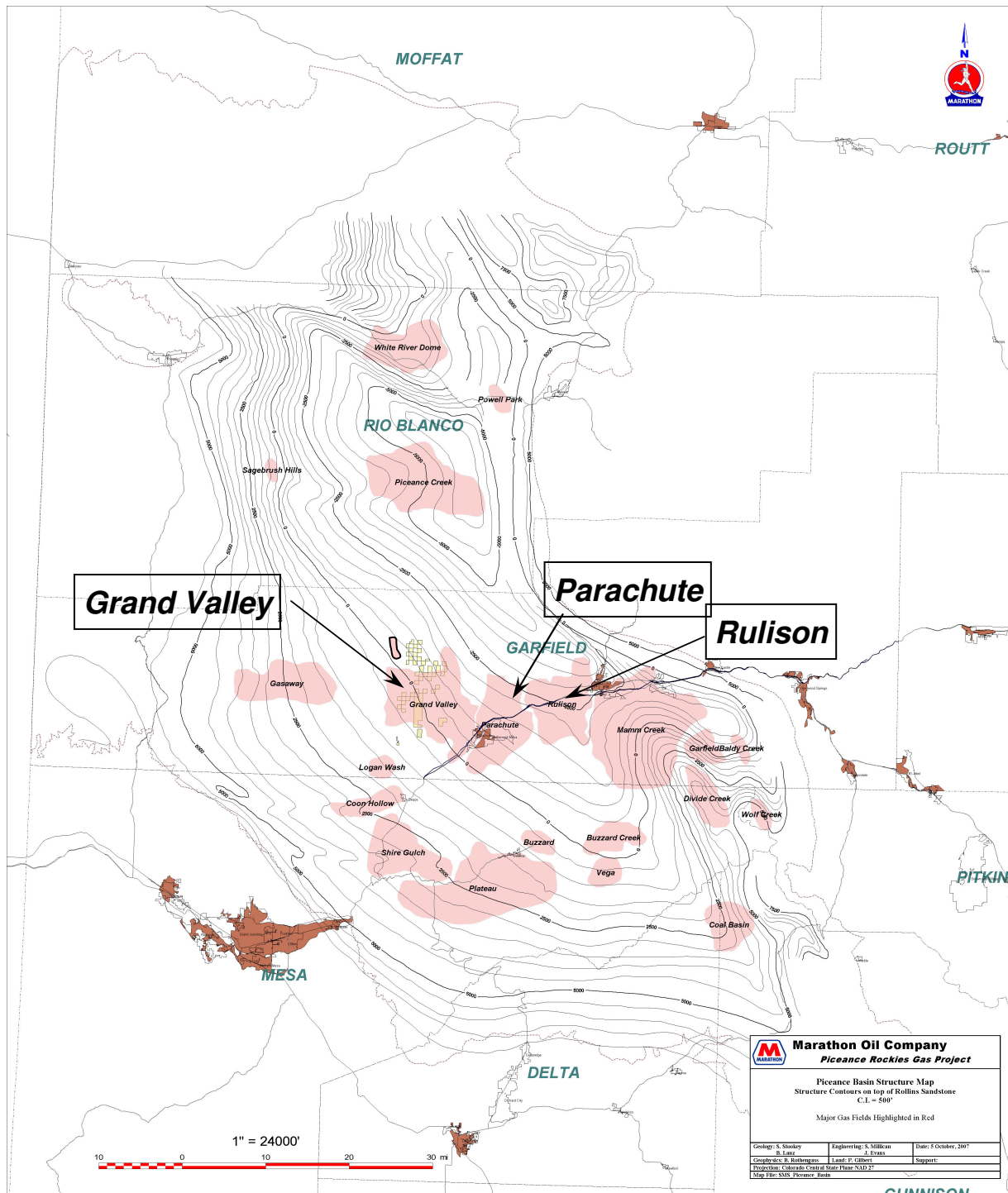
Marathon



Colorado: Piceance Basin



ROCKY MOUNTAIN BASINS
AND BASEMENT UPLIFTS



Worldwide Drilling & Completions

Keys to Marathon Success



- ♦ *VALUES and VALUE*
- ♦ *It starts with Marathon's Corporate Values*
 - *HES excellence*
 - *Respect for people and communities*
 - *No compromises*
 - *“Operator of Choice”*
- ♦ *Value Based Decisions*
 - *Technologies where appropriate*
 - *Be better at it than those around you*
 - *Cheap is not necessarily better*



Piceance Challenges



- ◆ Road Access
- ◆ Winter at Elevation
- ◆ Water Distribution, Transportation & Availability
- ◆ Lost Circulation
- ◆ HES issues extreme
- ◆ All Challenges Magnified?



Garden Gulch



Access Road



Surface Hole



- ♦ Template
- ♦ Blooie Line
- ♦ Surface Rotating Head
- ♦ Parasite
- ♦ Offline Cementing

Template



Blooie Line



Blooie Line



Diffuser



Wellhead Landing Ring



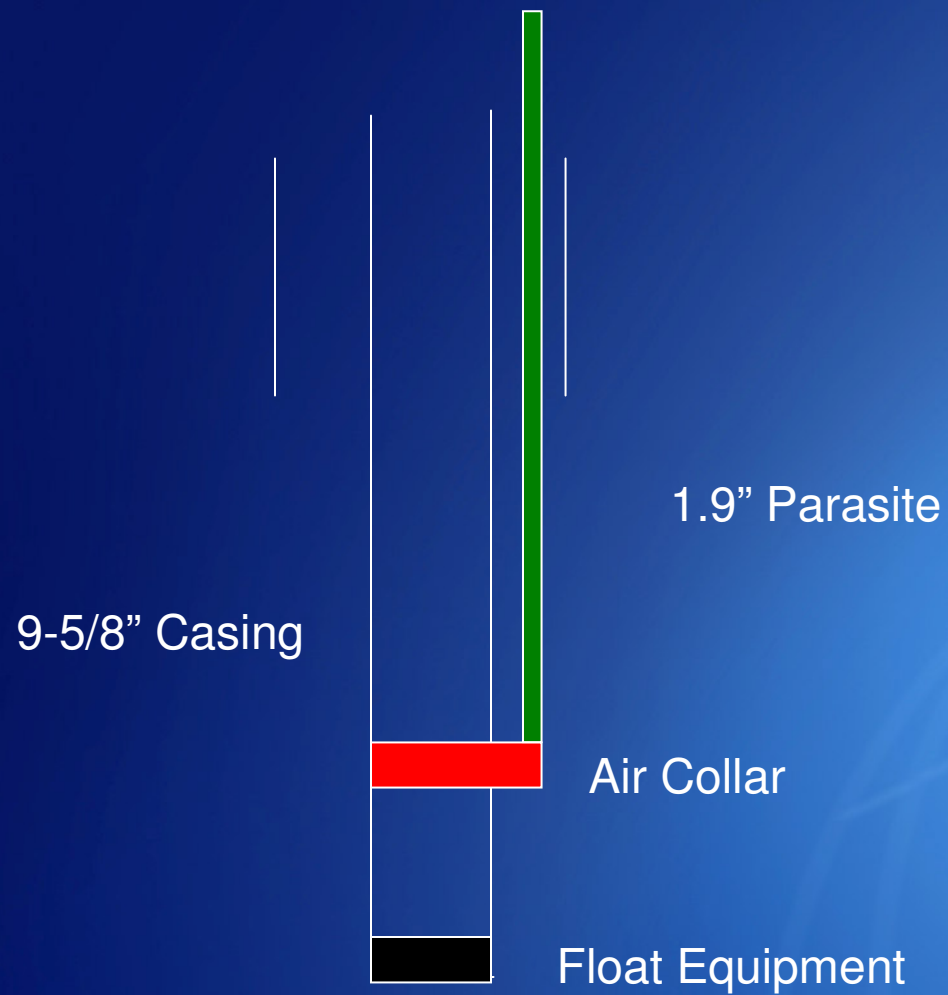
Surface Rotating Head



Surface Rotating Head



Surface Hole Diagram



Parasite V Door



Parasite Air Collar



Wellhead



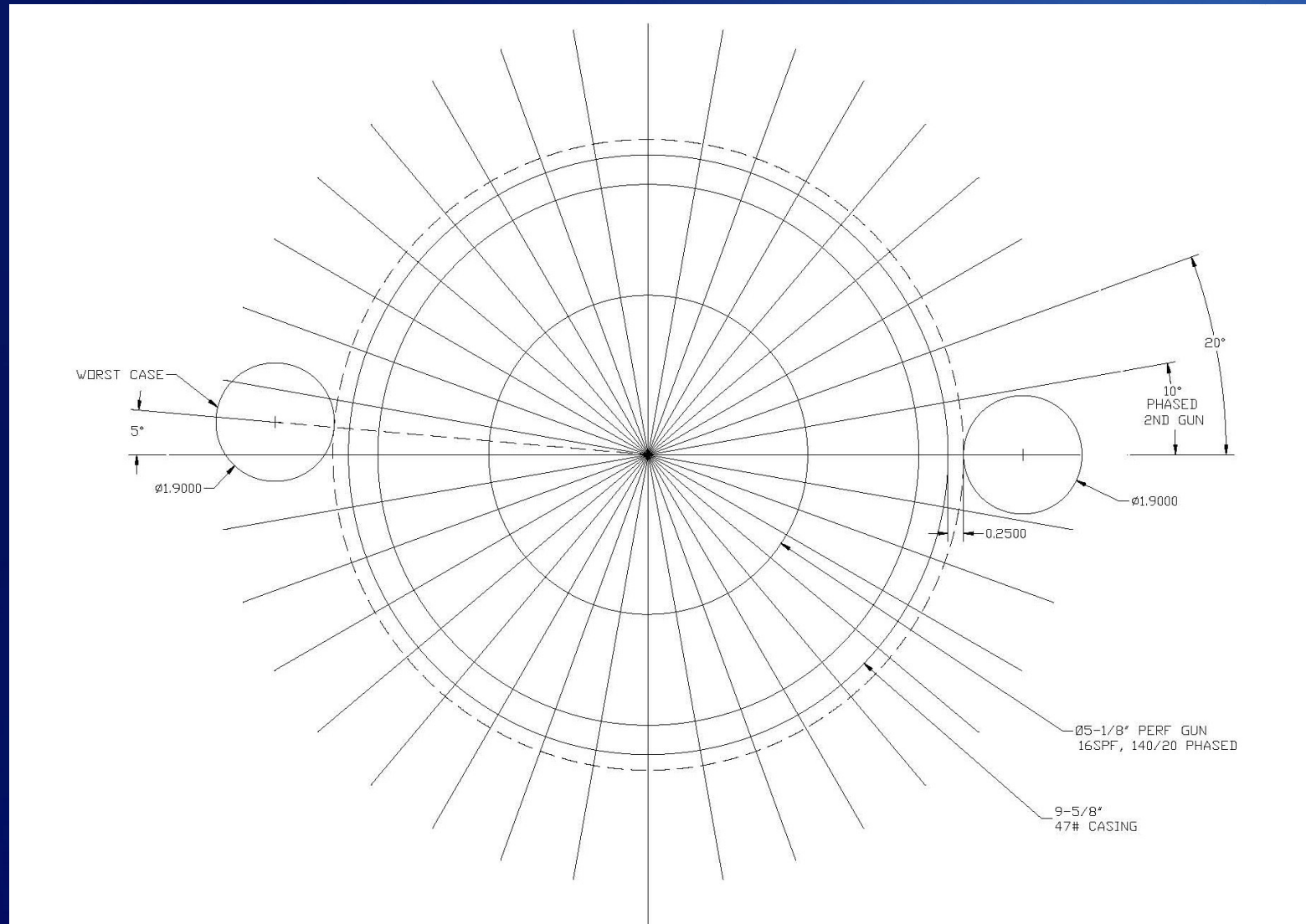
Wellehad



Parasite Clean out



Perforating Orientation



Perforating Guns



Rig Lay Out



Cement Lines



Cement Adapter



Offline Cementing



Production Hole



- ♦ Jumping BOPs
- ♦ Mud Storage



BOP Adapter



Mud Storage



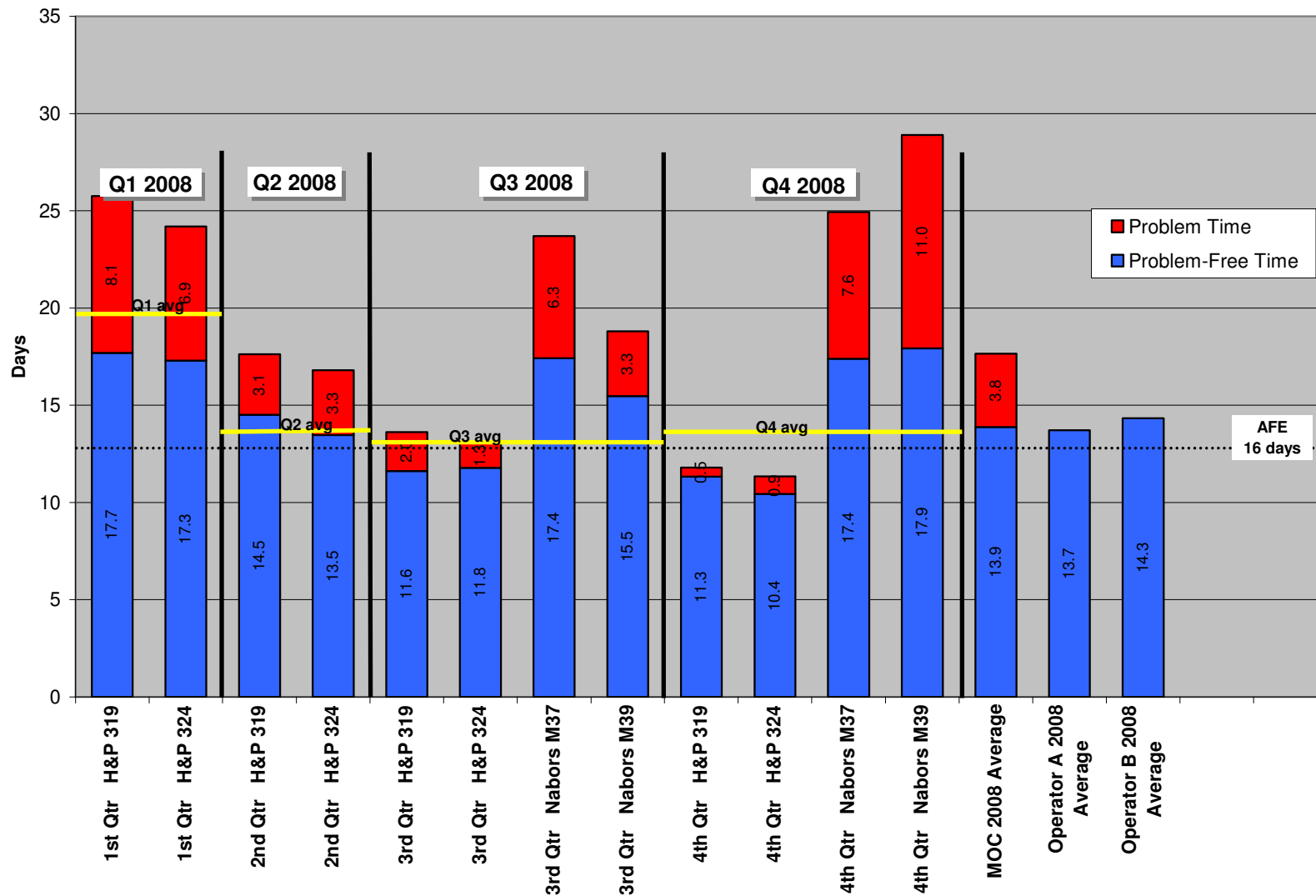
Piceance Man Camps



- ♦ 24 Man camp units
- ♦ Catered
- ♦ Licensed paramedic
- ♦ It's a quality of life issue

Piceance Field

Drilling Performance – Total Time





◆ Questions?