

## **NOTES REGARDING THE BLOWOUT PREVENTERS**

### **Master Drilling Plan Eddy County, New Mexico**

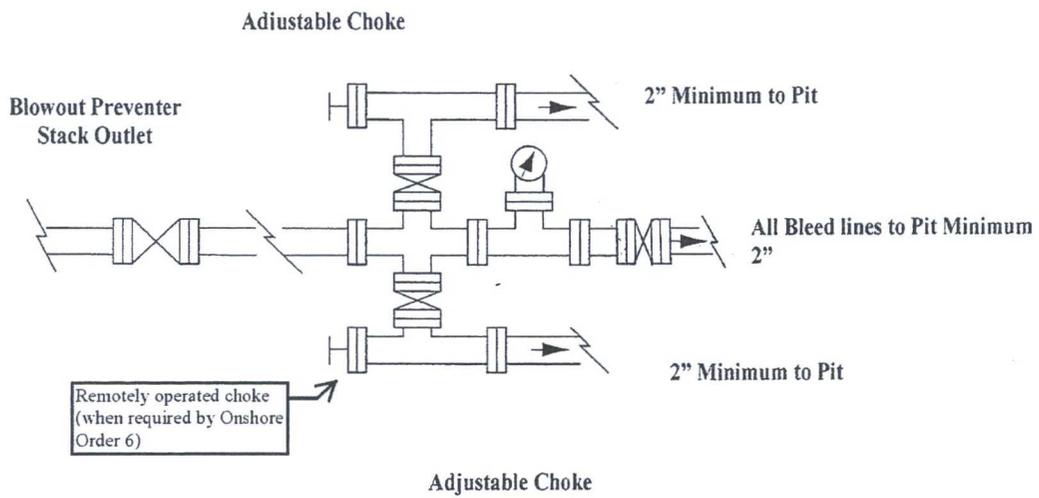
1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

# COG Operating LLC

## Exhibit #9

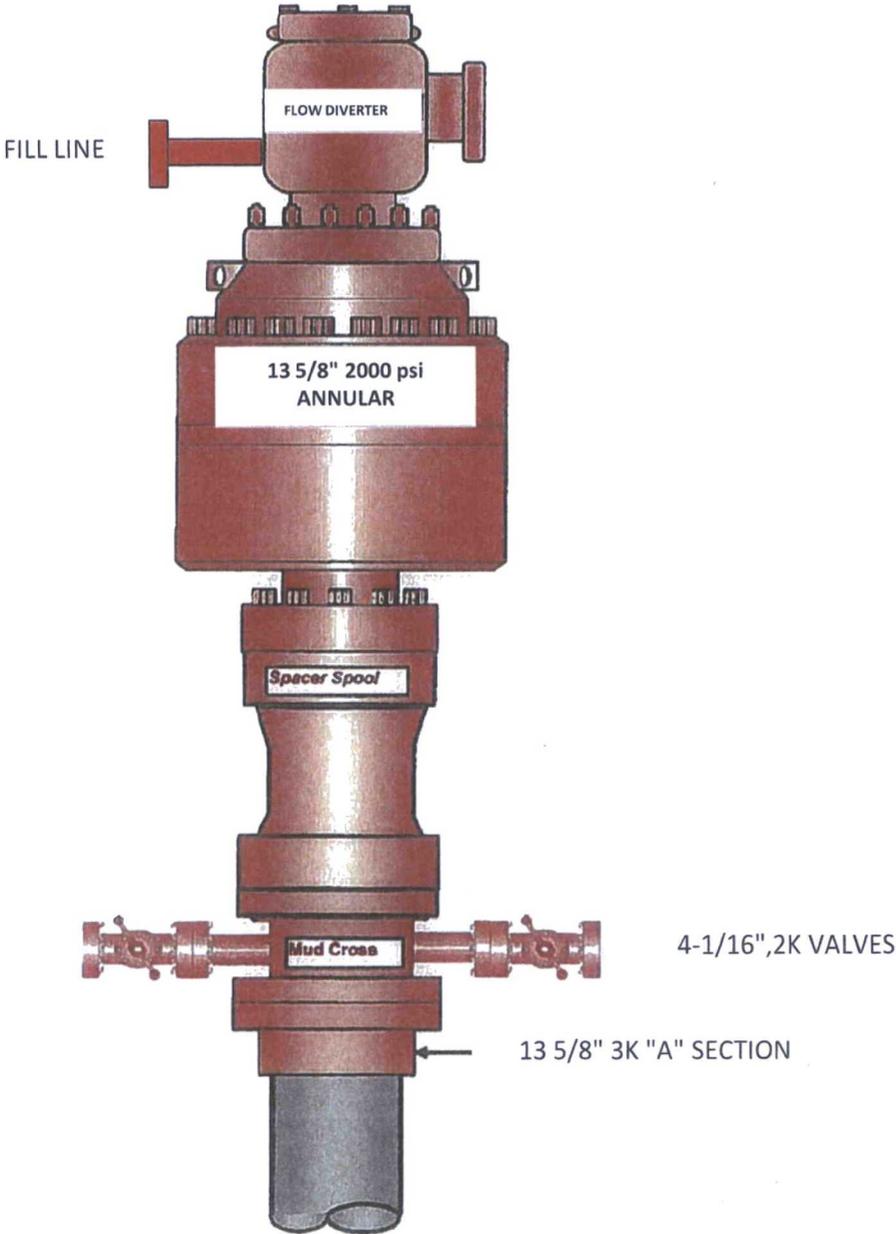
### Choke Schematic

#### Choke Manifold Requirement (2000 psi WP)



# Exhibit #10

## 13 5/8" 2K ANNULAR

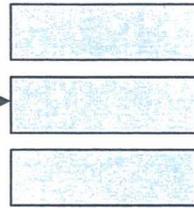


**COG Operating LLC**  
**Flat Head Federal Com #26H - H2S Safety Equipment Diagram**

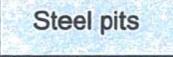
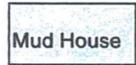
Secondary Egress →

Road Access  
with H2S  
sign ←

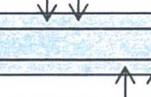
Fluid  
Storage  
Tanks



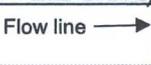
Roll Off Cutting  
Containers on  
Tracks



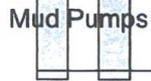
Centrifuge or  
Solids Sep.



Shakers



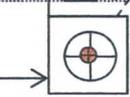
Flow line



Water Tanks

Water Tanks

Substructure



Cellar

Dog House



2" choke  
line not  
to gas  
buster

Steel Half Pit w/  
mounted "Gas Buster"  
Automatic Ignition

4" "Panic Line " to gas buster 150' f/wellhead  
(buried under Closed Loop Equipment)

☺  
Approx.  
120' from  
flare

2" choke line to  
pit

Transfer Pump

2" Choke Line 150' f/ wellhead  
(buried under Closed Loop Equipment)

\*If necessary will add a  
remote operated choke

Choke  
Manifold

Pipe  
Racks

N  
↓

Prevailing Wind  
Direction

N  
↓

Pad Orientation

Trailer

Primary  
☺

- Wind Direction Indicators
- ⊕ H2S Monitor with alarm at the bell nipple
- ☺ Safe Briefing Area with caution signs and breathing equipment