

30-025-37582

**Hydrogen Sulfide Drilling Operations Plan**

**HOBBS OCD**

Delaware Water Co., LLC  
Brininstool Federal #1  
Unit H Section 25  
T23S - R33E Lea County, NM

**AUG 22 2013**

**RECEIVED**

1. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
2. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
3. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S present in dangerous concentration. Only emergency personnel admitted to location.
4. Well control equipment
  - A. Flare line. *mud/gas separator w/ remotely operated choke.*  
Choke manifold.  
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
5. Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
6. Drillstem Testing not anticipated.
7. Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
8. If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

Delaware Water Company, LLC has conducted a review to determine if an H<sub>2</sub>S contingency plan is required for the referenced well. We were able to conclude that any potential hazardous volume would be minimal. No H<sub>2</sub>S was reported in the original drilling of this well, concentrations in other wells in the area have been absent or minimal and the hole is cased and cemented; therefore we do not believe that a H<sub>2</sub>S contingency plan is necessary.

## **WARNING**

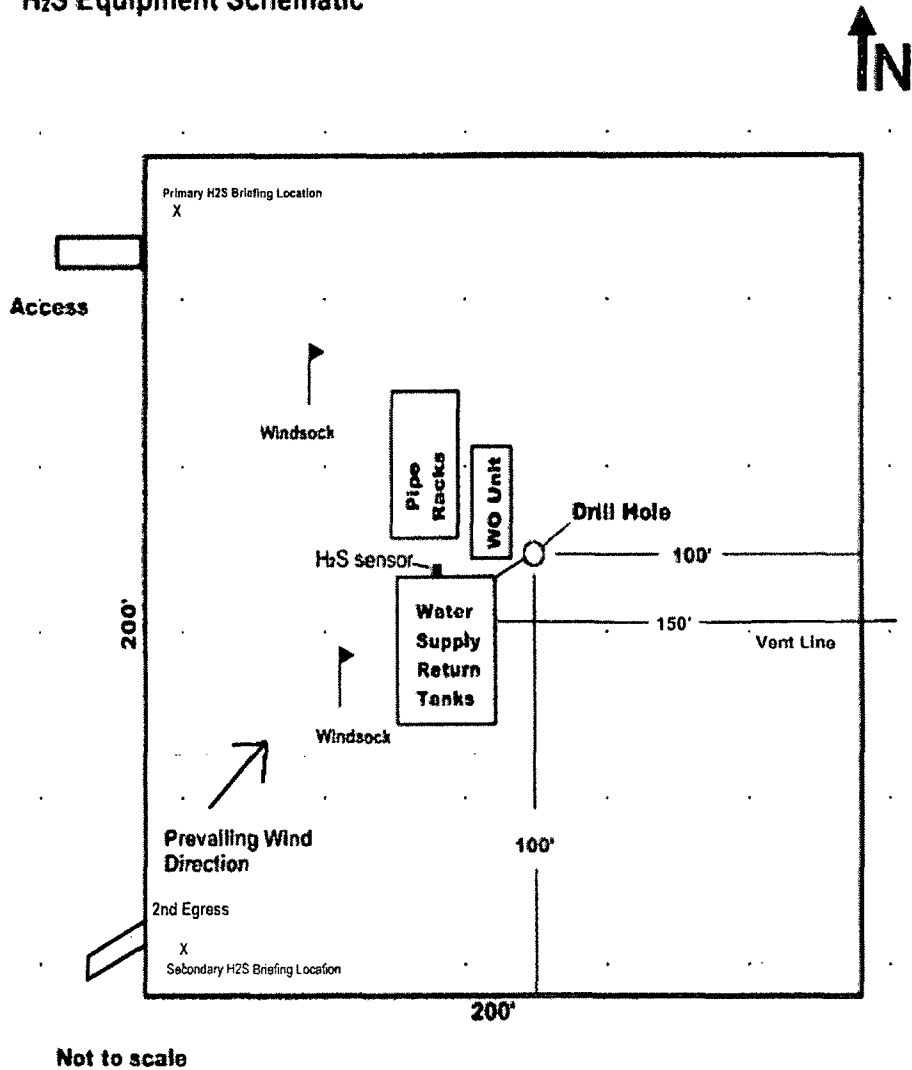
**YOU ARE ENTERING AN H<sub>2</sub>S AREA  
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CHECK WITH DELAWARE WATER FOREMAN**

**DELAWARE WATER CO. LLC**

**575-631-0522**

Delaware Water Co., LLC  
H<sub>2</sub>S Equipment Schematic



H<sub>2</sub>S briefing area will be located near the northern entrance upwind of returns tanks.  
H<sub>2</sub>S secondary briefing area will be located near southern entrance upwind of returns tanks.  
H<sub>2</sub>S warning signs will be located at access road to pad and beside returns tanks.

Delaware Water, LLC  
Brininstool 25 Federal #1  
1980' FNL & 660' FEL  
Sec. 25, T23S-R33E Lea Co., NM

API 30-025-37582

**EMERGENCY CALL LIST**

Delaware Water Co., LLC	575-631-0522
Kay Havenor	575-626-4518

**EMERGENCY RESPONSE NUMBERS**

State Police	575-392-5588
Lea County Sheriff	575-396-3677
Emergency Medical Services	911 or 575-746-2701
Artesia Fire and Ambulance	575-746-5050
Maljamar Fire and Ambulance	575-674-4100
Artesia General Hospital	
702 N. 13th St. Artesia	575-748-3333
Carlsbad Medical Center	
2430 West Pierce Street	575-887-4100
Carlsbad Police Department	575-885-2111
Eddy County Emergency Management	575-887-9511
Carlsbad Fire Department	575-885-3125

## Operator - Landowner Agreement

Company: Delaware Water Company, LLC  
Proposed well: Brininstool 25 Federal  
Federal Lease Number: NMNM 112940  
Location: 1980' FNL & 660' FEL Sec. 25, T23S-R33E  
Lea Co. NM

This is to advise that Delaware Water Company, LLC has an agreement with: Brininstool XL Ranch LLC (424 XL Road, Jal NM 88252, (275-390-1881), the surface owner, concerning entry and surface restoration after completion of drilling/re-entry operations at the above described well.

After abandonment of the well, all pits well be filled and leveled and all equipment and trash will be removed from the well site. No other requirements were made concerning restoration of the well site.

3/25/2013

Date

*Kay Havenor*

Kay Havenor

Agent for Delaware Water Co. LLC