

## STRATA PRODUCTION COMPANY

H<sub>2</sub>S DRILLING OPERATIONS PLAN

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NMOCD ARTESIA

## I. HYDROGEN SULFIDE TRAINING

A. All contractors and subcontractors employed by Strata Production Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on the well.

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
2. Safety precautions.
3. Operations of safety equipment and life support systems.

B. In addition, contractor supervisory personnel will be trained or prepared in the following areas:

1. The effect of H<sub>2</sub>S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
3. The contents and requirements of the contingency plan when such plan is required.

C. All personnel will be required to carry documentation of the above training on their person.

II. H<sub>2</sub>S EQUIPMENT AND SYSTEMS

## A. SAFETY EQUIPMENT

The following safety equipment will be on location.

1. Wind direction indicators as seen in attached diagram.
2. Automatic H<sub>2</sub>S detection alarm equipment both audio and visual.

3. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
4. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached Diagram.

## B. WELL CONTROL SYSTEMS

### 1. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. Pipe rams to accommodate all pipe sizes.
- b. Blind rams.
- c. Choke manifold.
- d. Closing unit.

### 2. Communication

- a. The rig contractor will be required to have two-way communication capability. Strata Production Company will have either land-line or mobile telephone capabilities.

### 3. Mud Program

- a. The mud program has been designed to minimize the volume of  $H_2S$  circulated to surface. Proper mud weight, safe drilling practices and the use of  $H_2S$  scavengers, when appropriate, will minimize hazards when penetrating  $H_2S$  bearing zones.

### 4. Drill Stem Test intervals are as follows:

- a. None planned

**STRATA PRODUCTION COMPANY**  
**Emergency Contact List**

**Strata Personnel:**

**Numbers:**

Frank Morgan, Drilling Superintendent	575-703-8888
Virgil Smith, Production Superintendent	575-828-0528

**Sheriff's Departments:**

Eddy County	575-887-1888
Lea County	575-396-3811

<b>New Mexico State Police:</b>	<b>575-392-5588</b>
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**Fire Departments:**

	911
Carlsbad	575-885-3125
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

**Hospitals:**

	911
Carlsbad Medical Emergency	575-887-4100
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

**Agent Notifications:**

Bureau of Land Management	575-393-3612
New Mexico Oil Conservation Division	575-393-8181
Mosaic Potash- Carlsbad	575-887-2871