

**2. H<sub>2</sub>S Safety Equipment and Systems**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the Yates zone at 2625'.

**1. Well Control Equipment:**

- A. An annular preventer capable of accommodating all pipe sizes with properly sized closing unit.

**2. Protective Equipment for Personnel:**

- A. Scott Air-Pack Units located on the rig floor and at briefing areas, as indicated on well site diagram.

**3. H<sub>2</sub>S Detection and Monitoring Equipment:**

- A. 2-portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H<sub>2</sub>S levels of 200 ppm are reached.

**4. Visual Warning Systems:**

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. See Example Attached.

**5. Mud Program:**

- A. The mud program is designed to minimize any H<sub>2</sub>S circulated to the surface. Proper mud weight and safe drilling practices will be used to minimize hazards when penetrating H<sub>2</sub>S bearing zones (San Andres).

**6. Metallurgy:**

- A. All of the drill string, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.