CONTINGENCY PLAN FOR HYDROGEN SULFIDE DISCHARGE

DRILLING OPERATIONS

Fasken Oil and Ranch, Ltd.

6101 Holiday Hill Road

Midland, TX  79707
I. HYDROGEN SULFIDE PHYSICAL PROPERTIES AND TOXICITY - Hydrogen sulfide is extremely toxic and smells like rotten eggs in low volumes. The acceptable concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity - 1.187) and is colorless. It forms an explosive mixture with air between 4.3 and 46.0 volume percent. Toxicity data for hydrogen sulfide and various gasses are compared in the table below.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Chemical Formula</th>
<th>Sp. Gravity (Air =1)</th>
<th>Threshold Limit</th>
<th>Hazardous Limit</th>
<th>Lethal Conc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Cyanide</td>
<td>HCN</td>
<td>0.94</td>
<td>10 ppm</td>
<td>150 ppm</td>
<td>300 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>H₂S</td>
<td>1.18</td>
<td>10 ppm *</td>
<td>100 ppm/hr</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>SO₂</td>
<td>2.21</td>
<td>5 ppm</td>
<td>--</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>Cl₂</td>
<td>2.45</td>
<td>1 ppm</td>
<td>4 ppm/hr</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>CO</td>
<td>0.97</td>
<td>50 ppm</td>
<td>400 ppm/hr</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>CO₂</td>
<td>1.52</td>
<td>5000 ppm</td>
<td>5%</td>
<td>10%</td>
</tr>
<tr>
<td>Methane</td>
<td>CH₄</td>
<td>0.55</td>
<td>90,000 ppm</td>
<td>Combustible above 5% in air</td>
<td>---</td>
</tr>
</tbody>
</table>

*Threshold Limit - concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects, 10 ppm = 1972 ACGIH concentration (American Conference of Governmental Industrial Hygienist) and Occupational Safety and Health Administration (OSHA).
II. PHYSICAL EFFECTS OF HYDROGEN SULFIDE - The physiological effects of hydrogen sulfide are summarized in the table below.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Physical Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Vol.</td>
<td>ppm</td>
</tr>
<tr>
<td>0.001</td>
<td>10</td>
</tr>
<tr>
<td>0.01</td>
<td>100</td>
</tr>
<tr>
<td>0.02</td>
<td>200</td>
</tr>
<tr>
<td>0.05</td>
<td>500</td>
</tr>
<tr>
<td>0.07</td>
<td>700</td>
</tr>
<tr>
<td>0.10</td>
<td>1000</td>
</tr>
</tbody>
</table>

III. ACCIDENTAL RELEASE OF HYDROGEN SULFIDE - The possible release of hydrogen sulfide gas could result from leakage at either wellhead, flow lines, separators or drill string at this drilling location.

A. In the event of an accidental release, the tool pusher, supervisor or agent of the operator in the vicinity at the time of the discharge will be in charge of all activities on the ground and shall be responsible for the following.

1. Notify all personnel, Company or outside, that are in the area to evacuate as soon as possible. This includes drilling rig crews, roustabout gangs, supervisory personnel, maintenance personnel, sales representatives, farm or ranch hands, visitors and all others that may be in the vicinity.

2. Notify the County Sheriff's office and the Department of Public Safety, and request their assistance to provide road blocks and direct traffic away from the drilling location. They should also be asked to assist in the evacuation of residents, if any, in affected area.

3. Alert local Hospital and Fire Department in the event that medical services or ambulance assistance is needed.
4. Call the Drilling Manager in the Midland Office and advise him of the nature and extent of the emergency situation.

B. The Drilling Manager or his delegate will notify the appropriate state and federal agencies that the contingency plan has been activated and what level and type of reaction has already been initiated.

C. Fasken's Senior Representative or employee on the scene will be in charge and shall initiate measures necessary to bring the gas flow under control securing whatever additional personnel and equipment are necessary to control the flow in the shortest time thereby reducing potential exposure of the general public to hydrogen sulfide.

IV. WEATHER CONDITIONS - Hydrogen sulfide collects in low lying areas during adverse weather conditions such as drizzle, rain, fog, calm winds and snow. These areas should be avoided. Any personnel in such areas should be evacuated and law enforcement personnel should be requested to keep people and traffic from entering. Should moderate winds be blowing hydrogen sulfide from the source of the discharge toward a populated area, residents and other personnel should be evacuated by law enforcement personnel who should then maintain an exclusion perimeter to avoid people from reentering the area until the emergency is over.

V. TERMINATION OF EMERGENCY AND FOLLOW-UP PROCEDURES - Fasken's Senior Representative or employee on the scene, with the cooperation of the Senior Law Enforcement Officer, will declare the emergency terminated when there is no further danger to oilfield personnel or general public. This will occur only after a sufficient number of gas measurements in the vicinity have been made by a qualified technician showing that hydrogen sulfide concentration is below the 10 ppm threshold. In addition, the Operator's Senior Representative or employee will perform the following duties connected with the emergency:

A. Notify all cooperating law enforcement agencies and emergency medical services that the emergency has been terminated.

B. Notify all evacuees that they may return safely to their residences or job sites.

C. Make an estimate of damages and/or expenses incurred in the control of the emergency, the evacuation of any persons and the destruction of property, if any, including domestic animals and livestock. He is to make an itemized list of all such damages and/or expenses along with pertinent addresses, and any other specific information pertinent to the situation. He is to deliver this list to the Drilling Manager as soon as possible.

D. Under no circumstance are damage estimates, names of affected persons, if any, or any other information pertaining to the incident be given to the press. All inquiries shall be directed to the Drilling Manager in the Midland Office. Public information regarding the emergency will be issued by headquarters office in Midland, Texas.

VI. Copies of the Contingency Plan are available in Fasken's office in Midland, Texas.

VII. This plan is subject to approval of the state and federal agencies and shall be revised as required.
Fasken Oil and Ranch, Ltd.
H₂S Contingency Plan
Emergency Phone Numbers
Quail “16” State No. 9 SWD

Fasken Oil and Ranch, Ltd. 432-687-1777

Key Personnel

Tommy Taylor, Director of Oil and Gas Development 432-556-2228
Cory Frederick, Senior Drilling Engineer 432-288-0086
Lane Gilmore, Drilling Engineer 432-254-4949
Deryl Briles, Drilling Foreman 432-556-4269
Jimmy Davis, Director of Operations 432-557-5668

Carlsbad, Eddy County, New Mexico

Ambulance 911
State Police 911 or 575-885-3138
Sheriff’s Office 911 or 575-887-7551
Fire Department 911 or 575-885-3125
Local Emergency Planning Committee 575-887-7553
Bureau of Land Management 575-628-3471
New Mexico Oil Conservation Division (Artesia) 575-748-1283

Hobbs, Lea County, New Mexico

Ambulance 911
State Police 911 or 575-392-5580
Sheriff’s Office 911 or 575-396-3611
Fire Department 911 or 575-397-9308
Local Emergency Planning Committee 575-393-2870
New Mexico Oil Conservation Division 575-393-6161

Statewide and National Emergency Numbers

New Mexico Department of Homeland Security and Emergency Management 505-476-9600
New Mexico State Emergency Operations Center (24 Hour Number) 505-476-9635
National Emergency Response Center 800-424-8802

Other Numbers for Emergency Response
Boots & Coots IWC
Cudd Pressure Control
MCH Care Star Flight Service (air ambulance)
Aerocare (air ambulance)

800-256-9688 or 281-931-8884
432-563-3356
432-640-4000
806-725-1111
Line from buster will terminate at flare pit, at least 150' from wellhead.

Flare line will terminate at flare pit, a minimum of 150' from the wellhead.

Mud/Gas Separator

Volume/Mixing Tanks

Storage Tanks

Closed Loop Processing Equipment/Roll Off Bins

Fasken Oil and Ranch, Ltd.

13-5/8" 5M BOP, Choke Manifold, and Closed Loop System