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H₂S Contingency Plan

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H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Tom Samarripa at ConocoPhillips Company, 432.368.1263.

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HYDROGEN SULFIDE (H₂S) OPERATIONS

Contingency Plan For Permian Drilling Operations

ConocoPhillips Company Mid-Continent Business Unit Permian Asset Area

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I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H_2S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H_2S release. Release of H_2S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

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II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H2S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H_2S could exist under specific weather conditions.

III. PROCEDURES

First Employee on Scene

_____ Assess the incident and <u>ensure your own safety</u>.

Note the following:

----- Location of the incident.

_____ Nature of the incident.

----- Wind direction and weather conditions.

_____ Other assistance that may be needed.

_____ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.

Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

Secure the site.

Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

----- Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.

----- Follow the principles of the **D.E.C.I.D.E.** process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

DETECT the problem ESTIMATE likely harm without intervention CHOOSE response objectives IDENTIFY action options DO the best option EVALUATE the progress

____ Complete the Preliminary Emergency Information Sheet (refer to Section VIII: Forms/Reports).

_____ Call your supervisor (refer to Section V: Emergency Call List).

Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).

- Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).
- —— Ensure site security.

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- ---- Set barricades and /or warning signs at or beyond the calculated 100 ppm H₂S radius of exposure (ROE). All manned barricades must be equipped with an H₂S monitor and a 2-way radio.
- Set roadblocks and staging area as determined.
- Establish the Incident Command Structure by designating appropriate on-scene response personnel as follows:

Recording Secretary	 	
Public Information Officer Safety/Medical Officer	 	
Decontamination Officer	 	

- Have the "Recording Secretary" begin documenting the incident on the "Incident Log" (refer to Section VIII: Forms/Reports).
- ----- If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.

- Perform a Site Characterization and designate the following:

Hot Zone	 Hazardous Area
Warm Zone	 Preparation & Decontamination Area
Cold Zone	 Safe Area

On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area

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(Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (Warm Zone)

Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

Coordinate the attempt to stop the release of H_2S . You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used **ONLY AS A LAST RESORT**. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

Once the emergency is over, return the situation to normal by:

Confirming the absence of H₂S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

- Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).
- Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)
- Report completion of the cleanup to the Asset Environmentalist. (Environmentalist will report this to the proper State and/or Federal agencies.)

Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

• Company employee receiving occupational injury or illnesses.

• Company employee involved in a vehicle accident while driving a company vehicle.

• Company property that is damaged or lost.

• Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.

- Hazardous Material Spill/Release Report Form
- Emergency Drill Report

Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures <u>Responsibility</u>

In the event of a release of potentially hazardous amounts of H2S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

- 1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.
- 2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.
- 3. Advise each contractor, service company, and all others entering the site that H2S may be encountered and the potential hazards that may exist.
- 4. Authorize the evacuation of local residents if H2S threatens their safety.
- 5. Keep the number of persons on location to a minimum during hazardous operations.
- 6. Direct corrective actions to control the flow of gas.
- 7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard. This should be used **ONLY AS A LAST RESORT**.

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IV. EMERGENCY EQUIPMENT and MAINTENANCE

Emergency Equipment Suppliers

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Safety International – Odessa, Tx.

H₂S monitors Breathing air includes cascade systems First aid and medical supplies Safety equipment H2S Specialist

Total Safety US Odessa, Tx/ Hobs, NM

H₂S monitors Breathing air includes cascade systems Fire fighting equipment First aid and medical supplies Safety equipment

Indian Fire & Safety – Hobbs, NM H₂S monitors Breathing air including cascade systems trailer mounted 30 minute air packs Safety Equipment 432.580.3770

432.561.5049 Odessa, Tx. 575.392.2973 Hobbs, NM

575.393.3093

Emergency Equipment and Maintenance (continued)

General Information

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Materials used for repair should be suitable for use where H_2S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H_2S areas shall have received training on the hazards, characteristics, and properties of H_2S , and on procedures and safety equipment applicable for use in H_2S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

- 3 Fixed H2S sensors located as follows:
 - 1 -on the rig floor

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- 1 at the Bell Nipple
- 1 at the Shale Shaker or Flowline

1 -<u>Entrance Warning Sign</u> located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

- 2 <u>Windsocks</u> that are clearly visible.
- 1 Audible warning system located on rig floor
- 2 <u>Visual</u> warning systems (Beacon Lights)
 - 1 -located at the rig floor
 - 1 -located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

- 2 Briefing areas clearly marked
 - 2 SCBA's at each briefing area
 - 1- SCBA located at the Drilling Reps office

<u>Note:</u>

- 1. All SCBA's must be positive pressure type only!!!
- 2. All SCBA's must either be Scott or Drager brand.
- 3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.

5 – <u>Emergency Escape Paks</u> located at Top Doghouse.

Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 - <u>Tri or Quad gas monitor</u> located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a priority list of personnel to contact in an emergency situation:

Supervisory Personnel	Office No.	Home	Cellular
R.W. "Cottton" Hair Permian Drilling Supt.	432.368.1302	432.563.9467	432.556.9116
Dennis Paschall Permian Drilling Field Supt.	432.368.1517	432.683.9400	432.238.3150
Tom Samarripa WSER	423.368.1263	432.367.4961	432.556.9113
Ty Maxey Permian Asset Operations Manager	432.368.1100		281.217.8492
Leo Gatson Safety and Environmental Coordinator	432.368.1248		432.631.066
Lynn Dooley Drilling Mngr.	832.486.2567	281.225.8063	281.435.3517

EMERGENCY, CALL LIST: State Officials

Regulatory Agencies

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New Mexico Oil Conservation Commission

Office: 575.393.6161

P. O. Box 1980 Hobbs, New Mexico 88240-1980

Bureau of Land Mngt.

 Carlsbad Field Office
 Office: 575.234.5972

 620 E. Greene St.
 Fax: 575.885.9264

 Carlsbad, NM 88220
 BLM 24 Hr on call # Lea County: 575-393-3612

EMERGENCY CALL LIST: Local Officials

Refer to the Location Information Sheet Note: The LIS should include any area residents (i.e. rancher's house, etc)

ConocoPhillips Emergency Call List and Location Information Sheet

ConocoPhillips- 281-293-3600

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Drilling Superintendent	Cotton Hair	Office: 432-368-1302
		Cell: 432-556-9116
Safety (WSER)	Tom Samarripa	Office: 432-368-1263
		Cell: 432-556-9113
Drilling Engineer	Steve Moore	Office: 832-486-2459
		Cell: 281-467-7596
Regulatory Contact	Susan Maunder	Office: 432-688-6913
		Cell: 432-556-6501

Emergency Numbers

Hospital: Lea Co. Regional Medical Center (Hobbs)	
Ambulance: Hobbs Fire Dept.	575-397-9308
Air Ambulance: Care Star	
Aero Star	800-627-2376
Fire Dept. (Hobbs)	
(Maljamar non-emerg)	
State Police (Artesia)	
(Hobbs)	
Sheriff (Lovington)	
Police (Lovington)	
NMOCD	
(Emerg)	575-370-3186
BLM Switchboard	
BLM 24 Hr on Call, Lea County	575-393-3612
New Mexico Emergency Response Comm (Santa Fe)	
New Mexico State Emerg Ops Ctr	
National Emergency Response Center	

Number of Residences within 1 mile of Well: There are no residences within one mile of the well to be drilled.

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and <u>only with facts</u>, do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:

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Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

Alert and/or Evacuate People within the Exposure Area

 <u>Public Notification</u> – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person <u>first</u> observing the leak should take <u>immediate</u> steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

Note: Bilingual employees may be needed to assist in notification of residents.

2. <u>Evacuation Procedures</u> – Evacuation will proceed upwind from the source of the release of H₂S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H_2S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

I. Incident Log

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- II. Preliminary Emergency Information Sheet
- III. Emergency Drill Report
- IV. Onshore Hazardous Material Spill/Release Report Form
- V. Immediate Report of Occupational Injury or Illness Report of Accident-Public Contractor Report of Loss or Damage to Company Property Report of Automotive Incident

ConocoPhillips

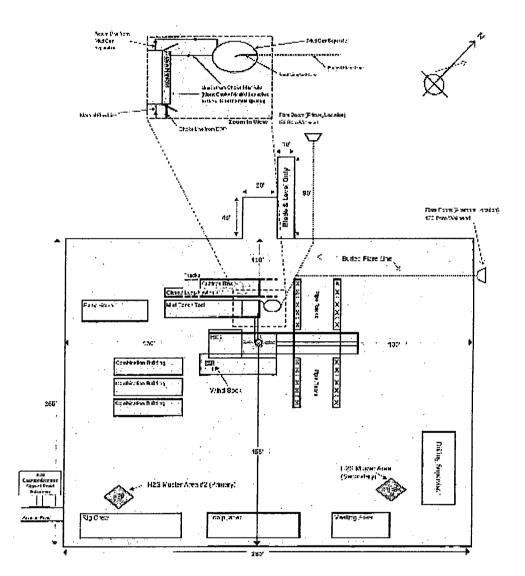
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