ConocoPhillips

March 2, 2005

Transmittal of
East Vacuum $CO_2$ Reinjection/EVLRP
$H_2S$ Reaction Contingency Plan Revision

East Vacuum $CO_2$ Reinjection/EVLRP
$H_2S$ Contingency Plan Book Holders:

Attached is a revised $H_2S$ Contingency Plan for the East Vacuum $CO_2$ Reinjection/EVLRP operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Sean Robinson at ConocoPhillips Company, (505) 391-3158.

Sean Robinson
SHEAR PSM Specialist

**Distribution List for East Vacuum Plant**

| | |
|---|---|
| **New Mexico Oil Conservation Division** | **1** |
| **New Mexico Environmental Department** | **1** |
| **New Mexico State Police** | **1** |
| **Lea County Sheriff Department** | **1** |
| **Lea Regional Hospital** | **1** |
| **Hobbs Fire Department** | **1** |
| **Lovington Fire Department** | **1** |
| **ConocoPhillips – Odessa Office** | **1** |
| **ConocoPhillips – Permian Operations Manager** | **1** |
| **ConocoPhillips – Buckeye Office** | **1** |
| **ConocoPhillips – East Vacuum Plant** | **1** |
| **ConocoPhillips – East Vacuum Plant Office** | **1** |

## Table of Contents

**Section**

ConocoPhillips

# HYDROGEN SULFIDE ($H_2S$) OPERATIONS

## REACTION CONTINGENCY PLAN FOR East Vacuum $CO_2$ Reinjection/EVLRP

AS SPECIFIED BY OCD OF NEW MEXICO
RULE 118

CONOCOPHILLIPS COMPANY
MID AMERICA BUSINESS UNIT
PERMIAN ASSET AREA

ConocoPhillips Company

Lower 48/LA Division

Mid America BU

Permian Basin Asset Area

# East Vacuum $CO_2$ Reinjection/EVLRP

**$H_2S$ REACTION CONTINGENCY PLAN**

**IN COMPLIANCE WITH NEW MEXICO OIL CONSERVATION COMMISSION RULE 118**

# 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 as defined by current New Mexico Oil Conservation Division Rule 118 and New Mexico Environmental Regulations. Release of $H_2S$ must be reported and the Incident Log maintained.

# II. SCOPE

This Reaction Contingency plan shall cover the East Vacuum $CO_2$ Reinjection/EVLRP and surrounding area, which contains gas with the specified $H_2S$ content (refer to Section VIII: $H_2S$ Reporting Form) and could result in the listed maximum radius of exposure. 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 ensure your own safety.

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 (refer to Section IX: Plat of Radius of Exposure.) 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).

**D**ETECT the problem
**E**STIMATE likely harm without intervention
**C**HOOSE response objectives
**I**DENTIFY action options
**D**O the best option
**E**VALUATE the progress

_____ Complete the Preliminary Emergency Information Sheet (refer to Section X: 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 (refer to Section V: Emergency Call List).

_____ Ensure site security.

__ Set barricades and /or warning signs at or beyond the calculated 100 ppm $H_2S$ radius of exposure (ROE). All manned barricades must be equipped with an $H_2S$ monitor and a 2-way radio.

__ Set roadblocks and staging area as shown on the "Radius of Exposure Plats" (refer to Section IX: Plat of Radius of Exposure).

_____ 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 X: 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

AND

| | |
|---|---|
| On-Scene Incident Command Post | (Cold Zone) |
| Public Relations Briefing Area | (Cold Zone) |
| Staging Area | (Cold Zone) |
| Triage Area | (Cold Zone) |
| Decontamination Area | (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 $H_2S$ 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 X: Forms/Reports and submit a copy to the Operations Manager. (Keep one copy in area files to document exercising of the plan.)

# IV. EMERGENCY EQUIPMENT and MAINTENANCE

## Emergency Equipment Suppliers

**Vallen Safety Supply, Odessa** (432) 561-8418

$H_2S$ monitors (personal & fixed)
Breathing air including cascade systems
Safety Equipment
First aid and medical supplies

**Callaway Safety Equipment Co., Inc.** (432) 561-5049 Odessa
(505) 392-2973 Hobbs
(505) 885-5799 Carlsbad

$H_2S$ monitors
Breathing air includes cascade systems
Fire fighting equipment
First aid and medical supplies
Safety equipment

**Leek Fire & Equipment Company, Odessa** (432) 332-1693
(432) 332-7645

$H_2S$ monitors
Breathing air
Fire fighting equipment
First aid and medical supplies
Safety equipment

**Thompson Specialties, Odessa** (432) 337-3891

$H_2S$ monitors
Breathing air
Fire fighting equipment
First aid and medical supplies
Safety equipment

**Donaldson Fire & Safety, Odessa** (432) 334-8523

$H_2S$ monitors
Breathing air including trailer-mounted cascade refill tanks
Fire fighting equipment

**Indian Fire & Safety, Hobbs** (505) 393-3093

$H_2S$ monitors (personal & fixed)
Breathing air including cascade systems trailer mounted
30 minute air paks
Safety Equipment

**Emergency Equipment and Maintenance (continued)**

Fire Protection

Available for use in fighting incipient stage fires at various locations covered by this plan are approximately 60 ConocoPhillips employees who have been trained in incipient stage fire-fighting techniques common to the industry. These employees may be called for duty from maintenance, field, and production groups throughout the Permian Basin South Eastern New Mexico Area.

Personnel in the facility experiencing the fire emergency will use the fire equipment in the capacity in which they have been trained. The only exception to this rule would be when a fire truck or pumping unit is dispatched to the scene and the driver or operator of this equipment will remain the operator of said under direction of the ConocoPhillips' supervisor.

General Information

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 lease entrances, wells, tank batteries, flow lines, gas lines, and other locations as specified in 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.

**Emergency Equipment and Maintenance (continued)**

| Quantity | Equipment Description |
|---|---|
| 2 | Fixed $H_2S$ monitors are located on the south side of Vacuum Glorieta East Unit East Battery. |
| 1 | Fixed $H_2S$ monitor is located on the north side of Vacuum Glorieta East Unit West Battery. |
| 1 | Fixed $H_2S$ monitor is located on the Vacuum Abo Battery number 4. |
| 4 | 30-minute Scott Air-Paks at EVGSAU $CO_2$ Plant. |
| 5 | 30-minute Scott Air-Paks at field production office. |
| 2 | Unit mounted equipped with 300 cu. ft. breathing air cylinder w/50' air hose w/dual connection. |
| 6 | 300 cu. Ft. cylinders with the above safety trailer. |
| 2 | Scott hoseline units with 5-min. Ska-Paks with the above safety trailer. |
| 3 | II-A, 30-minute Scott Air-Paks with the above safety trailer. |
| | 30 min. Scott Air Pak available in each vehicle unit. |

Note: Industrial Scientific HS-110, T-80, HS-560 single gas, HMX-271, TMX-410 and TMX-412 multi gas monitors and the BW Technologies Tri-Gas Monitors and H2S ToxyClip personal monitors are available to field personnel working within the S.E. New Mexico Area.

**EMERGENCY EQUIPMENT AND MAINTENANCE (Continued)**

Fresh Air Breathing Equipment Available (ConocoPhillips)

Below is a list of safety equipment available to the East Vacuum $CO_2$ Reinjection/EVLRP.

| Equipment | Location | Telephone |
|---|---|---|
| 1 - 300 cu. ft. breathing air cylinder w/50' air hose with dual connections. | **Vacuum Glorieta East Unit** | **Emergency Contact Tommy Brooks** |
| 1 - 300 cu. ft. breathing air cylinders w/50' air hose with dual connections. | **Vacuum Glorieta East Unit West Battery.** | **Office (505) 391-3147 Cellular (505) 390-3275 Home (505) 397-2660** |
| Fixed $H_2S$ Monitors w/sensor head (County Rd. No. 50) | **Vacuum Glorieta East Unit Vacuum Abo Battery #4** | |
| 1 - cascade breathing air system containing:<br><br>4 - 300 cu. ft. cylinders.<br>1 – Portable airline system (without cylinder)<br>1 - Spare 30 min cylinder<br>4 – 2.2-30 min. Scott Air Paks<br>2 - Scott 5 minute Ska-Paks.<br>1 - 25' air hose<br>1 - 100' extension cord | **Safety Air Trailer**<br><br>**Located at Buckeye New Mexico Field Office** | **Steve Wilson**<br><br>**Office:**<br>(505) 391-3170<br><br>**Cellular:**<br>(505) 390-3106<br><br>**Home:**<br>(505) 392-1877 |

## V. EMERGENCY CALL LIST: ConocoPhillips Personnel

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

| Local Supervisory Personnel | Office No. | Home | **P**ager/**C**ellular/ **M**obile Overdial |
|---|---|---|---|
| **H.L. Owens, Supervisor Plant Process** (After normal duty hours, call East Vacuum CO2 Plant @ (505) 396-7923 for emergency calls) | (505) 391-3156 | (505) 392-8638 | **C** (505) 390-8300<br>**M** 1234 / 2F<br>**P** 1-800 585-4572 |
| **Tommy Brooks** Production Supervisor | (505) 391-3147 | (505) 397-2660 | **C** (505) 390-3275<br>**P** 1-800 588-8773 |
| **Sean Robinson** SHEAR Specialist | (505) 391-3158 | (505) 396-3256 | **C** (505) 390-8873<br>**P** 1-800 348-4620 |
| **Steve Wilson** Environmentalist | (505) 391-3170 | (505) 392-1877 | **C** (505) 390-3106 |
| **Greg Ashdown** Permian Asset Operations Manager | (505) 391-3124 | (505) 397-2467 | **P** 1-888 385-1908<br>**C** (505) 390-1710 |
| **Jim Werner** Production Engineer | (432) 368-1425 | (432) 694-1499 | **C** (432) 556-7160 |
| **David Kannel** Safety and Environmental Coordinator | (432) 368-1248 | | **C** (432) 556-9117 |

To reach the mobile tower, dial Hobbs (505) 397-5599 or (505) 397-5502, Maljamar Tower (505)396-7953; at the tone, dial the 4 digit tower over-dial number. Note: If unable to notify above personnel, call the **24 Hour Emergency Telephone Number: EVLRP/$CO_2$ Control Room (505) 391-3152**

**EMERGENCY CALL LIST: State Officials**

**Regulatory Agencies**

**New Mexico Oil Conservation Commission** — Office: (505) 393-6161
P. O. Box 1980
Hobbs, New Mexico 88240-1980

**New Mexico Environmental Improvement Board** — Office: (505) 827-0042
1190 St. Francis Drive
Santa Fe, New Mexico 87504

**New Mexico Environment Department** — Office: (505) 393-4302

**New Mexico One Call** — Office: (800) 321-2537
Fax: (800) 260-0950

**EMERGENCY CALL LIST: Local Officials**

**Local Emergency Calls:**

**Law Enforcement Agencies**
New Mexico State Police — Hobbs: (505) 392-5588
P. O. Box 1980
Hobbs, New Mexico 88240-1980

**New Mexico Environment Department** — Office: (505) 393-4302

## **EMERGENCY CALL LIST:** Support Services

Note: This is also the distribution list for
East Vacuum $CO_2$ Reinjection/EVLRP
Reaction Type Contingency Plan

**New Mexico Environmental Improvement Board**
1190 St. Francis Drive
Santa Fe, New Mexico 87504

**Lt. Jerry Cottrell**
New Mexico State Police
P. O. Box 1069
Hobbs, New Mexico 88240

**W. N. Braswell, M.D.**
1801 Dal Paso
Hobbs, New Mexico 88240

**Lovington Fire Department**
Perry Williams, Fire Chief
213 S. Love Street
Lovington, New Mexico 88260

**Lovington Emergency Medical Service**
213 S. Love Street
Lovington, New Mexico 88260

**Lea Regional Hospital**
Lovington Highway
Hobbs, New Mexico 88240

Notification of Offset Operators
East Vacuum $CO_2$ Reinjection/EVLRP
Revised March 1, 2005

ChevronTexaco
56 Texas Camp Road
Lovington, NM 88260

ExxonMobil
717 West Sanger
Hobbs, NM 88240

Marathon Oil Company
2350 W Marland
Hobbs, NM 88240

Shell Western E & P
P.O. Box 1950
Hobbs, NM 88240

Oxy USA, Inc
P.O. Box 50250
Midland, TX 79710

BP Amoco
1017 West Stanolind Road
Hobbs, NM 88240

Arco Oil & Gas Company
P.O. Box 1710
Hobbs, NM 88240

Yates Petroleum Company
105 South 4th Street
Artesia, NM 88210

Chesapeake Operating
5014 Carlsbad Highway
Hobbs, NM 88240

# 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 **only with facts,** 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:**
**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.

# VII. Public Notification/Evacuation

## Alert and/or Evacuate People Within the Exposure Area

1. Public Notification – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person **first** observing the leak should take **immediate** steps to cause notification of any nearby residents as noted in Section IX: Plat of Radius of Exposure. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. The map in Section IX indicates areas of public dwellings or public areas, which are in the radius of exposure covered by this Reaction Contingency Plan. 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. If such evacuation procedure is implemented or public roads require blockage (refer to Section IX), the applicable New Mexico Oil Conservation Commission and the New Mexico Environment Department will be notified immediately.

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

2. Evacuation Procedures – Evacuation will proceed upwind from the source of the release of $H_2S$. 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 shown on the Radius of Exposure area should be established as show on the Radius of Exposure Map in Section IX, modified as necessary for current wind conditions.

At all times, note the wind direction before evacuation procedures begin. Listed below are the annual percentiles of prevailing wind directions in the Permian Basin Area:

| | |
|---|---|
| Due South | 24% |
| Southeast | 15% |
| Due North | 12% |
| Northeast | 11% |
| Southeast | 10% |
| Northwest | 10% |
| Due East | 8% |
| Due West | 8% |
| Calm | 3% |

**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.

## X. FORMS & REPORTS

I. Incident Log

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

VI. Vehicle Accident Report

Submit 1 copy to Appropriate
District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form Adopted 1987
Form Revised 1990
File in Accordance
With Rule 118

## $H_2S$ REPORTING FORM

OPERATOR Phillips Petroleum Company

ADDRESS 4001 Penbrook, Odessa, TX 79762

East Vacuum Unit - $CO_2$ Reinjection/EVLRP
(Pool, Plant, or Facility Name)

| Lease, Plant or Facility | Well No. | Sampling Point (Tank, Separator, etc.) | Location UL-S-T-R | Name of Tester | Test Method | Test Date | $H_2S$ Concentration (Report in PPM Volume if Available |
|---|---|---|---|---|---|---|---|
| Facility | | Plant Inlet | A&B S33, 17S, 35E Lea County | Laboratory Services | Tutweiler | 9/18/96 | 12,243 ppm |

REMARKS: _____

Signature David Unger/per attachment

Printed Name and Title Production Tech.

Date 9/18/96 Telephone No. (915)368-1461

**Laboratory Services, Inc.**
4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: ConocoPhillips
Attention: Mr. Lee Owens
HC 60 Box 450
Lovington, New Mexico 88260

SAMPLE DATA:
DATE SAMPLED: 8/14/03 10:45 am
ANALYSIS DATE: 8/14/03
PRESSURE – PSIG
SAMPLE TEMP. °F
ATMOS. TEMP. °F 78

REMARKS: H2S = 11,743 PPM

SAMPLE:
IDENTIFICATION: Plant Inlet
COMPANY: ConocoPhillips
LEASE:
PLANT: E. Vacuum CO2 Plant

GAS (XX) LIQUID ( )
SAMPLED BY: Rolland Perry
ANALYSIS BY: Vickie Biggs

## COMPONENT ANALYSIS

| COMPONENT | | MOL PERCENT | GPM |
|---|---|---|---|
| Hydrogen Sulfide | (H2S) | 1.174 | |
| Nitrogen | (N2) | 1.726 | |
| Carbon Dioxide | (CO2) | 76.086 | |
| Methane | (C1) | 8.771 | |
| Ethane | (C2) | 4.645 | 1.239 |
| Propane | (C3) | 3.671 | 1.009 |
| I-Butane | (IC4) | 0.489 | 0.160 |
| N-Butane | (NC4) | 1.380 | 0.434 |
| I-Pentane | (IC5) | 0.463 | 0.169 |
| N-Pentane | (NC5) | 0.519 | 0.188 |
| Hexane Plus | (C6+) | 1.076 | 0.467 |
| | | 100.000 | 3.666 |

| | |
|---|---|
| BTU/CU.FT. – DRY | 422 |
| AT 14.650 DRY | 421 |
| AT 14.650 WET | 413 |
| AT 14.73 DRY | 423 |
| AT 14.73 WET | 416 |

MOLECULAR WT. 41.5813

SPECIFIC GRAVITY –
CALCULATED
MEASURED 1.434

## INSTRUCTIONS- TO BE FOLLOWED DURING EMERGENCY

1. In case of fire or other emergencies, sound the alarms and then notify Operations Superintendent, or Maintenance Foreman.
2. The operator on duty in the area where the emergency occurs will be in charge until he is relieved by a supervisor.
3. The operator who is not working in the emergency area will see that all gates are closed- then he will assist where needed.
4. The operators should proceed to make any changes in operation that are deemed necessary.
5. When fires occur, boilers should be left operating if at all possible to assist in combating the emergency.
6. When notified of emergency, all personnel should report to plant fire house and aid in the combating of the emergency.
7. Road blocks, if necessary, will be set up to adequately clear company property. Only authorized personnel will be admitted through the road blocks.

   Authorized personnel will include Exploration and Production Dept. personnel and emergency vehicles (ambulances, municipal fire fighting equipment, and law enforcement personnel.)
8. Plant personnel will not attempt to give out information pertaining to the emergency to any non-employee. The Plant Superintendent or personnel so designated in the Phillips Emergency Procedure (PEP) are the only ones who should provide news information to outsiders. News provided by those authorized should be in accord with procedures outlined in PEP.
9. In event of injuries or loss of life, the names will be withheld until next of kin are notified by proper company officials.
10. All radio-equipped vehicles should report to plant office for assignment.
11. Persons to be notified in event of an emergency:

    PRODUCTION SUPERINTENDENT — ENGINEERING DIRECTOR

    PRODUCTION MANAGER — SAFETY SECTION
12. Personnel who are fighting a fire must consider the safety of themselves and others. The following is a list of safety precautions to be taken:

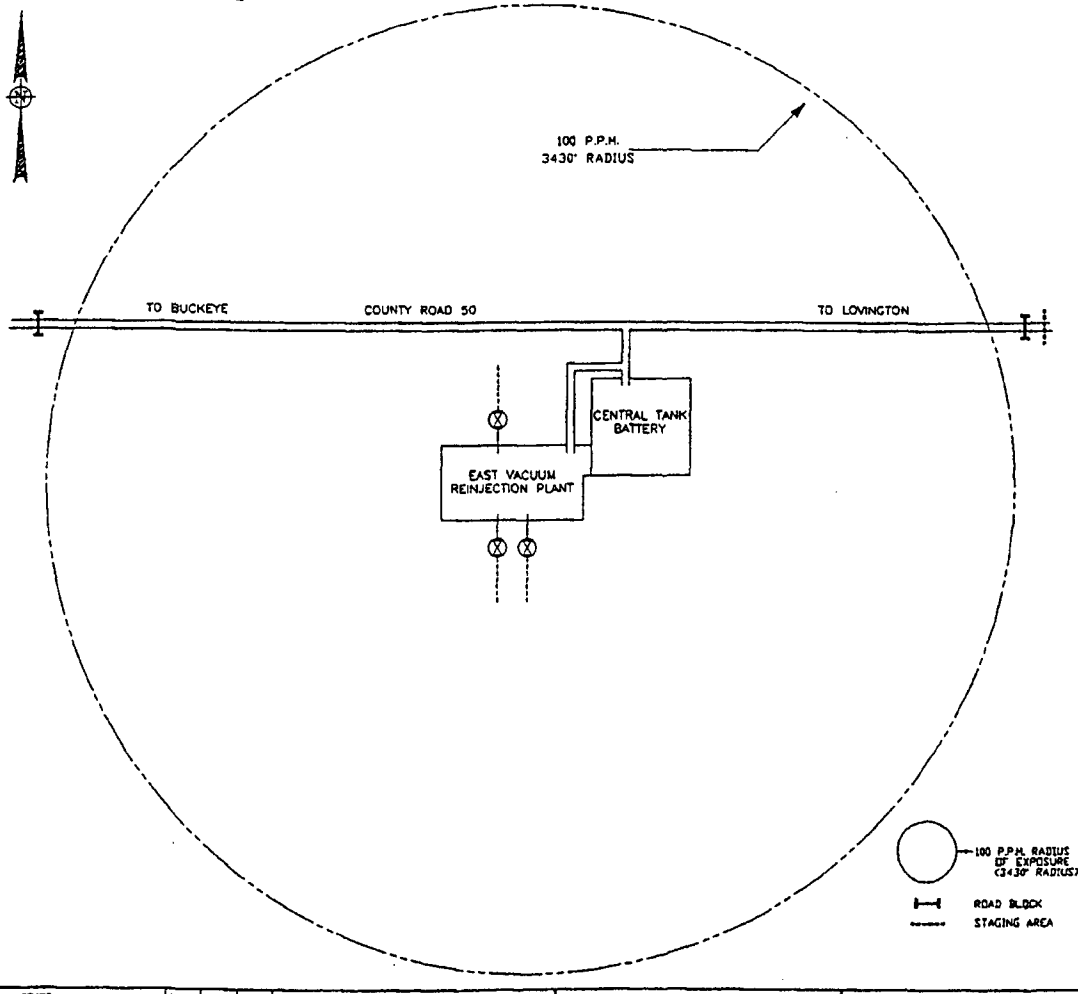
    A. Avoid being trapped by the fire.

    B. Fight the fire from an up-wind position.

    C. Take note of any flame impingement on vessels.

    D. If there is a possibility of vessel or line failure, evacuate the danger area. Vessels containing flammables under pressure that have been absorbing heat from an intense fire (without being cooled) are considered to be extremely hazardous.

VALVE LOCATIONS FOR EMERGENCY SHUTDOWNS
$H_2S$ RADIUS OF EXPOSURE
EAST VACUUM $CO_2$ REINJECTION PLANT/EVLRP




0' 325' 650' 975' 1300'

NOTES:

| NUMBER | REFERENCE DRAWINGS | REV. | DATE | REVISION | DRAWN | CHK'D | APPR. |
|---|---|---|---|---|---|---|---|
| | | 1 | 11/28/90 | ADDITIONAL ROADBLOCKS | RTS | | |
| | | 2 | 5/19/93 | UPDATED $H_2S$ RADIUS EXPOSURE | LVE | | |

RMF DESIGN & INSPECTION, INC.

PHILLIPS 66 PHILLIPS PETROLEUM COMPANY
PERMIAN BASIN REGION
ODESSA, TEXAS

SCALE: NOT SCALE BAR | DRAWN: DCR
CHECKED: | DATE: 8/13/90

VALVE LOCATIONS FOR EMERGENCY SHUTDOWNS
$H_2S$ RADIUS OF EXPOSURE
EAST VACUUM $CO_2$ REINJECTION PLANT

GWD-427-M36 /1

EVCO02.DWG