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OXY Permian

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EMERGENCY ACTION PLAN

FECTA 33 FEDERAL COM #1H-2H

DRILLING/WORKOVER

DRILLING AND CRITICAL WELL OPERATIONS

**DRILLING/WORKOVER
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EMERGENCY ACTION PLAN**

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PREFACE

An effective and viable Emergency Action Plan (EAP) is intended to provide prior planning and guidance in responding to emergency incidents. The primary considerations in its development are protection of personnel, the public, company and public property, and the environment.

Although the plan addresses varied emergency situations that may occur, it recognizes that flexibility and the use of the organization's knowledge and experience is critical to safe resolution of emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into operation without confusion. These actions should promote quick and decisive actions during the critical initial period and immediately following an emergency. As the response progresses, additional guidelines and procedures may need to be implemented as the situation dictates. In addition, all emergency incidents must be properly reported per the Oxy Incident Reporting and Notification Policy, state and federal requirements, etc.

The following procedures are provided as Oxy Permian's minimum expectations. The Contractor's own procedures may be utilized in lieu of Oxy Permian's, provided that it meets or exceeds the minimum deliverables. It should be understood that this list is not all-inclusive, but the overall plan should assist in lateral application to similar incidents.

This EAP is intended for use on Oxy Drilling/Workover projects and the operations within their area of responsibility, such as drilling, critical well work, etc.

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

- A. In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document for further responsibilities:
 - 1. Notify the senior ranking contract representative on site.
 - 2. Notify Oxy representative in charge.
 - 3. Notify civil authorities if the Oxy Representative cannot be contacted and the situation dictates.
 - 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

General Responsibilities

Oxy Permian Personnel:

- A. Drill Site Manager: The Oxy Drilling/Critical Well Servicing Operations Specialist or contract personnel serving in that capacity will serve as Operations Chief Officer for all emergency incidents. The Operations Chief Officer is responsible for:
 - 1. Notification to the Drilling/Workover Team Leader of the incident occurrence.
 - 2. Notification to the local RMT/PMT leader of the incident occurrence, and the need for the designated local RMT/PMT Incident Commander to act in that capacity for the response effort.
 - 3. Sole control of all tactical activities directed toward reducing the immediate hazard, establishing situational control and restoring the operations to a non-emergency state.
- B. Local RMT/PMT Designated Incident Commander: The Oxy local RMT/PMT Designated Incident Commander will serve as the overall Incident Commander for the drilling or critical well servicing emergency incident. The Incident Commander is responsible for:
 - 1. Coordinating with the Drilling Manager for notification to the Oxy Crisis Management team of the incident occurrence.
 - 2. Establishing and managing the overall incident command structure and response from inception through restoration of normal activities in the area.
- C. Drilling/Workover HES Tech: The Drilling/Workover HES Tech (or his designate) is responsible for reporting to the incident as soon as reasonably possible, to provide support to the response effort as required by the Operations Chief Officer or the Incident Commander.

Contract Drilling Personnel will immediately report to their assigned stations and perform their duties as outlined in the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document.

Other Contractor Personnel will report to the safe briefing area to assist Oxy personnel and civil authorities as requested when it is safe to do so and if they have been adequately trained in their assigned duties.

Civil Authorities (Law Enforcement, Fire, and EMS) will be responsible for:

- 1. Establishing membership in the Unified Incident Command.
- 2. As directed by the Incident Commander and the Unified Command, control site access, re-route traffic, and provide escort services for response personnel.
- 3. Perform all fire control activities in coordination with the Unified Command.
- 4. Initiate public evacuation plans as instructed by the Incident Commander.
- 5. Perform rescue or recovery activities with coordination from the Unified Command.
- 6. Provide medical assistance as dictated by the situation at hand.

WELL CONTROL

The following procedures will be implemented when a loss of primary control is indicated. Indicators of loss of primary control are flow from the well, an increase in pit volume, or when the drilling fluid used to fill the hole on trips is less than the calculated pipe displacement volume. The emergency signal for well control procedures will be a single long blast of the rig air horn.

Kick While Drilling - Procedures And Responsibilities

Driller:

1. Stop the rotary and hoist the kelly above the rotary table.
2. Stop the mud pump(s).
3. Check for flow.
4. If flowing, sound the alarm immediately.
5. Ensure that all crew members fill their responsibilities to secure the well.
6. Record drill pipe and casing shut-in pressures and pit volume increase and begin kill sheet.

Derrickman:

1. Go to BOP/choke manifold area.
2. Open choke line valve on BOP.
3. Signal to Floorman #1 that the choke line is open.
4. Close chokes after annular or pipe rams are closed.
5. Record shut-in casing pressure and pit volume increase.
6. Report readings and observations to Driller.
7. Verify actual mud weight in suction pit and report to Driller.
8. Be readily available as required for additional tasks.

Floorman # 1:

1. Go to accumulator control station and await signal from Derrickman.
2. Close annular preventer and HCR on signal (if available, if not then close pipe rams).
3. Record accumulator pressures and check for leaks in the BOP or accumulator system.
4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 2:

1. Start water on motor exhausts.
2. Notify Contractor Tool Pusher or Rig Manager of well control situation.
3. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3:

1. Stand-by with Driller, and be readily available as required for additional tasks.

Tool Pusher/Rig Manager:

1. Notify Oxy Representative and report to rig floor.
2. Review and verify all pertinent information.
3. Communicate information to Oxy Representative, and confer on an action plan.
4. Finalize well control worksheets, calculations and preparatory work for action plan.
5. Initiate and ensure the action plan is carried out.
6. Communicate any changes in well or site conditions, or any indications that the action plan needs to be revised to the Oxy representative.

Oxy Representative:

1. Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

WELL CONTROL (continued)

Kick While Tripping - Procedures and Responsibilities

Driller:

1. Sound the alarm immediately when pipe displacement volume is less than 75% of calculated.
2. Position the upper tool joint just above rotary table and set slips.
3. Check for flow.
4. Ensure that all crew members fill their responsibilities to secure the well.
5. Record drill pipe and casing shut-in pressures and pit volume increase, and begin kill sheets.

Derrickman: (same as while drilling)

Floor Man # 1:

1. Install full opening valve (with help from Floorman #2) in top drill string connection.
2. Tighten valve with make up tongs.
3. Go to accumulator control station and await signal from Derrickman.
4. Close annular preventer and HCR valve on signal (if available, if not then close pipe rams).
5. Record accumulator pressures and check for leaks in the BOP and accumulator system.
6. Report to Driller, and be readily available as required for additional tasks.

Floor Man # 2:

1. Assist installing full opening valve in drill string.
2. Position back-up tongs for valve make-up.
3. Start water on motor exhausts.
4. Notify Contractor Tool Pusher or Rig Manager of well control situation.
5. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
6. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3, Rig Manager/Tool Pusher, and Oxy Representative: (same as while drilling)

H2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H2S siren and lights.

All Personnel:

1. On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

1. Check that all personnel are accounted for and their condition.
2. Administer or arrange for first aid treatment, and /or call EMTs as needed.
3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
4. Notify Contractor management and Oxy Representative.
5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible For Shut-in and Rescue:

1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
2. Utilize the buddy system to secure well and perform rescue(s).
3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Remain at the briefing area and await further instructions - do not leave unless instructed.

Oxy Representative:

1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
2. Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PERSONAL INJURY OR DEATH

Call for assistance, and then administer first aid for the injured. Treatment should be prioritized by life-threatening conditions.

- A. Do not move injured personnel unless they are in imminent danger. An ambulance should be summoned for any injury that appears to be serious.

FIRE OR EXPLOSION

Fire Fighting Philosophy

It is Oxy Permian's intent that Oxy and contract personnel will only extinguish incipient or beginning stage fires and perform or assist in initial non-threatening rescue operations. The responding fire department will be given primacy when they arrive to control a fire on any Oxy property. Any Oxy or contract employee who participates in a fire response must be fully trained and qualified as such, and must be utilizing appropriate Personal Protective Equipment.

Contract and Oxy Personnel Deployment

In the event of a fire or explosion all personnel will report to the safe briefing area. The Senior Contract Representative on site will designate personnel for rescue as appropriate depending on their qualifications and the risks of the rescue. Any rescue which involves significant risk to those performing the rescue should be deferred to professional response personnel.

No personnel will leave the area without direction / permission from the Senior Contract Representative on-site.

The Senior Contract Representative on site will notify local emergency response personnel as required, along with the Contract Company management and the Oxy Representative as soon as reasonably possible.

SPILLS

In the event of a significant spill of any substance, the person discovering it should immediately notify the rig supervisor and the Oxy Representative. Personnel onsite should **NOT** attempt identification, control or containment unless they are absolutely sure of the product spilled, are fully aware of the hazard characteristics, and are equipped with the appropriate personal protective equipment.

HYDROCARBON VAPOR CLOUD RELEASE

Upon discovery of a Hydrocarbon Vapor Cloud (NGL) release, take immediate safety precautions to protect any company personnel or others that might be in the area. Other emergency actions should be initiated only by trained expert personnel from the appropriate pipeline company.

The following guidelines should be followed:

1. Immediately notify the rig supervisor and the Oxy Representative.
2. Determine wind direction, and evacuate upwind or at 90 degrees to the release.
3. Maintain a safe distance from the cloud.
4. Render first aid and call for an ambulance as necessary.
5. Attempt to warn approaching individuals of the hazard.

BOMB THREAT

In the event of a bomb threat, the person receiving the call, on or off site, should try to get as much information as possible from the caller. The person receiving the call should immediately contact the supervisor in charge. Evacuation of the field should be considered at this time. Roadblocks may need to be installed. The supervisor in charge should make all appropriate contacts.

The Supervisor contacted should:

- a. Realize that every bomb threat is serious.
- b. Notify Corporate Security
- c. Inform Police/Sheriff's Department and Fire Department
- d. Contact RMT Leader or his designated relief to coordinate search efforts with the assistance of the local law enforcement agencies.

BOMB THREAT CHECKLIST

Date _____ Name of person taking call _____ Phone # call came on _____

FILL OUT COMPLETELY IMMEDIATELY AFTER BOMB THREAT

1. When is the bomb set to explode? _____
2. Where is the bomb located? _____
3. What does the bomb look like? _____
4. What type of bomb is it? _____
5. What will cause the bomb to explode? _____
6. Did the caller place the bomb? _____
7. Why did the caller place the bomb? _____
8. What is the caller's name and address? _____

Callers: Sex _____ Age _____ Race _____ Length of call _____

DESCRIPTION OF CALLER'S VOICE (Check all that apply)

<input type="checkbox"/> Calm	<input type="checkbox"/> Rapid	<input type="checkbox"/> Laughing	<input type="checkbox"/> Lisp	<input type="checkbox"/> Disguised
<input type="checkbox"/> Angry	<input type="checkbox"/> Crying	<input type="checkbox"/> Raspy	<input type="checkbox"/> Accent	<input type="checkbox"/> Familiar? Who did
<input type="checkbox"/> Excited	<input type="checkbox"/> Normal	<input type="checkbox"/> Deep	<input type="checkbox"/> Stutter	it sound like?
<input type="checkbox"/> Slow	<input type="checkbox"/> Distinct	<input type="checkbox"/> Ragged	<input type="checkbox"/> Deep	<input type="checkbox"/> Deep Breathing
<input type="checkbox"/> Loud	<input type="checkbox"/> Slurred	<input type="checkbox"/> Nasal	<input type="checkbox"/> Clearing Throat	

BACKGROUND SOUNDS:

<input type="checkbox"/> Street	<input type="checkbox"/> House	<input type="checkbox"/> Factory	<input type="checkbox"/> Music	<input type="checkbox"/> Local Call
<input type="checkbox"/> Noises	<input type="checkbox"/> Noises	<input type="checkbox"/> Machinery	<input type="checkbox"/> Static	<input type="checkbox"/> Long Distance
<input type="checkbox"/> Voices	<input type="checkbox"/> Motor	<input type="checkbox"/> Animals	<input type="checkbox"/> PA System	<input type="checkbox"/> Phone Booth
<input type="checkbox"/> Office	<input type="checkbox"/> Clear	<input type="checkbox"/> Other		

THREAT LANGUAGE:

<input type="checkbox"/> Well-Spoken	<input type="checkbox"/> Foul	<input type="checkbox"/> Incoherent	<input type="checkbox"/> Irrational	<input type="checkbox"/> Taped
<input type="checkbox"/> Message Read by Threat Maker				

REMARKS:

NATURAL DISASTERS

Tornadoes

These general procedures should be followed by everyone seeking shelter from a severe storm or tornado:

Indoors:

1. Protect yourself from flying glass and debris.
2. Take refuge near the core of the building for maximum protection.
3. Do not smoke while taking shelter.
4. Shut all doors to offices, if time permits.

In the field:

1. Seek cover in a low-lying area, such as a culvert, ditch, pit, or water injection valve box.
2. Get out of and away from your vehicle.
3. Stay away from power lines.
4. Cover your head with your arms and clothing.

Thunderstorms

Indoors:

1. Avoid water pipes, sinks, showers, tubs, etc.
2. Stay away from doors and windows.
3. Do not use the telephone.
4. Take off head sets.
5. Turn off, unplug, and stay away from appliances, computers, power tools, & TV sets.

In the field:

1. Avoid water.
2. Avoid high ground and open spaces.
3. Avoid all metal objects including electric wires, fences, machinery, motors, power tools, etc. Unsafe places include underneath canopies, small picnic or rain shelters, or near trees. Where possible, find shelter in a substantial building or in a fully enclosed metal vehicle such as a car, truck or a van with the windows completely shut. If lightning is striking nearby when you are outside, you should:
 - a. Crouch down, feet together, hands over ears
 - b. Avoid proximity (minimum of 15 ft.) to other people.
4. SUSPEND ACTIVITIES for 30 minutes after the last observed lightning or thunder.

PUBLIC RELATIONS

Oxy recognizes that the news media have a legitimate interest in incidents at Oxy facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Oxy employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

Drilling Dept. Emergency Contact list

**Drilling Manager Richard Jackson (713)-215-7235 office
(281)-467-6383 cell**

**Drilling Superintendent Travis Samford(713) 215-7849 office
(281) 684-6897 cell**

**Drilling Eng. Supervisor Frank Hutton (713) 366-5325 office
(713) 855-4274 cell**

**HES Specialist-Drilling Danny Davidson (713)-215-7683 office
(832)-330-7707 cell**

**Drilling Coordinator Drue Dunaway 432-685-5715 office
432-556-3288 cell
432-524-2161 home**

OXY Permian Incident Reporting Phone List**OXY Permian Crisis Team Hotline Notification 713-935-7210**

Person	Location	Office Phone	Cell Phone	Home Phone
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Asset Management

OXY Permian President & General Manager: Ken Dillon	Houston	713-366-5140	661-333-9315	713-660-8885
Operations Manager: Bill Elliott	Midland	432-685-5845	432-557-6736	432-689-6309
Operations Manager: Vicki Hollub	Houston	713-215-7332	713-885-6347	713-215-7332

Drilling Operations

Drilling Manager-Permian: Richard Jackson	Houston	713-215-4235	281-467-6383	-
Drilling Superintendent: Sergio Abauat	Houston	713-366-5689	832-531-5636	-
Drilling Superintendent: Nelson Emery	Houston	713-215-7357	281-467-2862	-
Drilling Engineer Supervisor: Camilo Arias	Houston	713-366-5953	281-468-4652	-
Permian Drilling HES Sr.: Rob Lovelady	Midland	432-685-5630	432-813-6332	432-697-2899
Permian Drilling HES: Brian Bielss	Midland	432-685-5719	432-813-6335	432-247-1129
Drilling Coordinator: Drue Dunaway	Midland	432-685-5715	432-556-3288	-
Location Construction Specialist Sr.: Dusty Weaver	Midland	432-685-5723	806-893-3067	-
Drilling Technologist: Michael Bennett	Midland	432-685-5954	432-813-7538	-

Production Leaders

Southern Permian Operations: Larry Sammons	Midland	432-685-5724	432-296-9323	-
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Well Service Coordinator

Well Service Coordinator Central: Tracy Lammert	Midland	325-574-8555	325-207-3380	-
Well Service Coordinator Gas Op: Kirk Hobbs	Midland	432-685-5951	432-634-3890	-

Production Team Leaders

Team Leader: Gilbert Williams	Seminole/Andrews/ Lea. Cty, NM	432-385-2778	806-215-0009	-
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OP-WST Gas Operations (Kirk Hobbs)

WOCS: Lonnie Catt	Carlsbad	575-628-4140	575-706-2988	-
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HES Staff & Areas of First Contact Support

HES Manager: John Kirby	Houston	713-366-5460	281-974-9523	281-458-6122
Leader HES: Pete Maciula	Midland	432-685-5667	432-557-2450	432-522-2112
Leader HES: Roy Escobedo	Midland	432-685-5677	432-238-9014	-
Well Service HES Advisor Sr: Chris Young	Midland	432-685-5952	432-967-8946	-
HES Specialist Sr.: Steve Bishop	Hobbs	575-397-8251	575-390-4784	575-392-7428
Environmental Consultant, Air: Peggy Waisanen	Midland	432-685-5673	432-894-1968	432-688-5158

DOT-Pipeline Response Numbers

N. Hobbs Unit: Steve Bishop	Hobbs	505-397-8251	505-390-4784	505-392-7428
All DOT Pipeline Support: Donald Bales	Midland	432-685-5844	432-894-1960	432-262-3136

Law Enforcement - Sheriff

Lea Cty Sheriff's Department	Lea Co (Hobbs)	505-393-2515	-	-
Lea Cty Sheriff's Department	Lea Co (Eunice)	505-384-2020	-	-
Lea Cty Sheriff's Department	Lea Co (Lovington)	505-396-3611	-	-
Eddy Cty Sheriff's Department	Eddy Co (Carlsbad)	505-887-7551	-	-

Law Enforcement - Police

Hobbs City Police	Hobbs, NM	505-397-9265	505-393-2677	-
NM State Police	Carlsbad, NM	505-885-3137	-	-
NM State Police	Eunice, NM	505-392-5588	-	-

Law Enforcement - DPS

NM State Police	Hobbs, NM	505-392-5588	-	-
NM State Police	Carlsbad, NM	505-885-3137	-	-
NM State Police	Eunice, NM	505-392-5588	-	-

Poison Control

Texas	Texas	800-762-7661	-	-
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Local Emergency Planning Comm.

Jerry Reynolds	Lea County, NM	505-396-8600	505-399-2376	-
Joel Arnwine	Eddy County, NM	505-887-9511	-	-

Firefighting & Rescue

Hobbs	Hobbs, NM	505-397-9308	-	-
Carlsbad	Carlsbad, NM	505-885-3125	-	-
Eunice	Eunice, NM	505-394-2111	-	-

Ambulance

Hobbs, NM	Hobbs, NM	505-397-9308	-	-
Carlsbad Ambulance	Carlsbad, NM	505-885-2111	-	-
Eunice Ambulance	Eunice, NM	505-394-3258	-	-

Medical Air Ambulance Service

Southwest MediVac	Hobbs, NM	800-242-6199	-	-
Odessa Care Star	Odessa, TX	888-624-3571	-	-

Medical Facilities

Covenant Medical Center	Lubbock, TX	806-725-1011	-	-
Southwest MediVac	Hobbs, NM	800-242-6199	-	-
Guadalupe Medical Center	Carlsbad, NM	505-887-6633	-	-

Regulatory Agencies

Bureau of Land Management	Carlsbad, NM	505-887-6544	-	-
Bureau of Land Management	Hobbs, NM	505-393-3612	-	-
Bureau of Land Management	Roswell, NM	505-393-3612	-	-
Bureau of Land Management	Santa Fe, NM	505-988-6030	-	-
DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission	Santa Fe, NM	505-827-3549	-	-
EPA Hot Line	Dallas, Texas	214-665-6444	-	-
Federal OSHA, Area Office	Lubbock, Texas	806-472-7681	-	-
National Response Center	Washington, D. C.	800-424-8802	-	-
National Infrastructure Coordinator Center		202-282-9201	-	-
New Mexico Air Quality Bureau	Santa Fe, NM	505-827-1494	-	-
New Mexico Oil Conservation Division	Artesia, NM	505-748-1283	-	-
New Mexico Oil Conservation Division	Hobbs, NM	505-393-6161	-	-
New Mexico Oil Conservation Division	Santa Fe, NM	505-471-1068	-	-

New Mexico OCD Environmental Bureau	Santa Fe, NM	505-827-7152	-	-
New Mexico Environmental Department	Hobbs, NM	505-827-9329	-	-
NM State Emergency Response Center	Santa Fe, NM	505-827-9222	-	-