H2S – 61

OXY HOBBS
H2S CP

04/03/2013

REACTION-PROCESS CONTINGENCY PLAN
FOR A
HYDROGEN SULFIDE (H2S) GAS EMERGENCY
INVOLVING THE
OXY PERMIAN-CENTRAL OPERATING AREA
HOBBS OPERATIONS

Revision 03/21/2013

OCCIDENTAL PERMIAN LTD.
HOBBS, NEW MEXICO

TABLE OF CONTENTS
Hobbs Area
H2S CONTINGENCY PLAN

OPERATOR QUICK REFERENCE GUIDE

If H2S (facility alarm or personal monitor) is detected greater than 10 ppm

- Move away from the source and get away from the affected area-with continuous *wind direction awareness* (upwind and perpendicular to the release)
- Verbally alert other affected personnel and direct them to a safe assembly area
- Don personal SCBA and assist personnel in distress (always use the Buddy system)
- Account for on-site personnel
- Take immediate measures to control the presence of or potential H2S discharged and to eliminate possible ignition sources. Emergency shutdown procedures should be initiated as necessary to correct or control the specific situation.

Was release abated?

Yes

- Call Team Lead.
- Monitor air to see when re-entry is safe (< 10 ppm H2S)

No

Call Team Lead. Monitor air with H2S monitor within ROE to determine if public is affected by 100 ppm H2S in a public area, 500 ppm H2S on a public road, or 100 ppm over 3000 ft.

Was public affected by release?

No

Monitor air and cordon off area until re-entry is safe (<10 ppm H2S)

Yes

Call 911

- Activate H2S Contingency Plan
- Coordinate with Fire Dept. regarding blocking unauthorized access to the unsafe area and assist as appropriate. Make ROE's and site drawings available to Fire Dept.
- Coordinate with Fire Dept regarding the evacuating the public and assist as appropriate.

Notify NMOCD and National Response Center as applicable.

Information to provide 911 Operator

- Name, phone number and/or address of person reporting emergency
- Location of emergency (Well or facility number, cross street and/or lat/long)
- Any known injuries or missing persons
- Concise statement of what is happening
- What type of emergency services are needed on location

REACTION-PROCESS CONTINGENCY PLAN FOR A HYDROGEN SULFIDE GAS EMERGENCY INVOLVING THE OXY PERMIAN-HOBBS AREA

Section I.

A. Purpose and Scope of Plan Coverage

The purpose of this plan is to provide for the logical, efficient and safe emergency response action to be taken by the Occidental Permian, Central Operating Area, Hobbs Operations (Hobbs Area) as required by 19.15.11 NMAC and API RP-55. The protection of the general public and workers in the event of an accidental release of potentially hazardous quantity of Hydrogen Sulfide Gas (H_2S) from the site operations is of the highest priority. The closely associated dangers of CO2 are well known and documented and are covered within the Hobbs Area Emergency Action Plans.

A reaction-type contingency plan is a pre-planned, written procedure for alerting and protecting the public, within an area of exposure, at the moment of an accidental release of a potentially hazardous volume of hydrogen sulfide. It is intended that the senior emergency response official (e.g. Oxy Team Leader or his designee) will become the individual in charge of the Site specific Incident Command System (ICS). All emergency responders and their communication will be coordinated through the individual in charge of the ICS for the Hobbs Area of operation of the Occidental Permian Oil & Gas leases located within or near the proper city limits of the City of Hobbs, New Mexico.

The operations consist of approximately 282 producing oil and gas wells, 189 injection wells, 10 Tank Batteries with vapor recovery units, 16 production satellites1 CO2 Recompression Facility, 4 Water Injection facilities and several thousand feet of underground pipeline injection or production gathering systems. Several automated safety devices are in use, including: Emergency Shut Down (ESD) Valves, H2S Monitors, Continuous Pipeline Integrity Monitoring, and 24 hour Alarm Notification through a local answering service. In addition to the automation, Night Riders are in the field to conduct 24 hour surveillance of the operations and are equipped with SCBA's and Tri-Function gas detection meters. All Hobbs personnel are trained on Standard Operating Procedures and participate in Emergency Response drills and scenarios.

The Hobbs Area has operated a secondary recovery water flood program of the properties and since 2003 has operated a tertiary recovery program which utilizes carbon dioxide (CO2) flood as a means of additional recovery of oil and gas production.

The operational areas of the Hobbs Area are divided into two areas, the North Hobbs and South Hobbs Units. A map of the Hobbs Area boundaries is included as Appendix A in Section IV of this plan

Sources of potentially hazardous volumes of H2S gas in the Hobbs Area operations include:

- Oil and gas producing wells and associated flow lines
- Gas gathering systems (pipelines)
- Fluid gathering and handling facilities (satellites and batteries)
- Produced Gas Injection Compression Facility, it's distribution system and associated injection wells

Leaks from these sources could create an H_2S exposure area. Whether such exposure areas would be hazardous would depend upon their location and size. The calculations of the exposure potential, leak size is assumed to be the maximum possible from the particular system. This is generally and intentionally a conservative calculation because the vast majority of leaks will occur as small fraction of the system. These calculations are based on the escape rates as allowed by New Mexico Hydrogen Sulfide standard for existing and new operations. The H2S concentrations were determined using applicable ASTM or GPA standards or another method approved by the NMOCD. Radii of exposure (ROE) were calculated in accordance with these requirements using the approved DNV PHAST chemical dispersion software (see *Section IV* of this plan).

B. Safety and Design Specifications

Production and Injection Wells

All of the SFRM (Specialty Field Risk Management) Wells (See Appendix B for location of these wells) are being equipped with new 3,000 PSI integral type flanged wellheads. These wellheads are constructed with materials that meet or exceed the NACE MRO 175 specification and the API 6A specification for wellhead and Christmas tree equipment.
A high and low-pressure switch that will shut down the pumping unit or Electrical Submersible Pump (ESP) when a condition outside the normal operating range is detected will protect the flowlines. The rod pumped wells are equipped with a polished rod "blow out preventer".
Production fluids are sent to the Satellites through new Zaplock, 4" Schedule 40 ERW pipe (HIC resistant) rated to 2000 PSI.
The Injection System in North Hobbs is a water- alternating- gas injection system (WAG), which means we re-inject all of our produced water. The WAG injection lines are 3" Sch. 40, ASTM A-312, GR TP 316/316L ERW with a MAOP of 2160 psi and are constructed to handle the injection pressure of 1750 psi.
Also, a pressure safety valve on the injection source is designed to protect the injection line. Each CO2 distribution lateral is also protected with thermal relief valves that will prevent a harmful overpressure condition due to trapped CO2.

Batteries & Satellites

The battery and satellite equipment is equipped with safety devices on all the pressure vessels, and production headers. These vessels have been equipped with pressure monitoring devices and pressure safety valves. In the event of an overpressure or an upset situation, the gas volume will be directed to the flare at the battery. The pressure vessel design incorporates Emergency Shutdown (ESD) Valves to protect against an overpressure or underpressure condition. Level alarms and devices have been installed to notify and prevent an unsafe condition due to overflow or gas release. Pressure safety devices and flow control devices will be used to control the pressure and flow during the operation of the central battery.

H2S Monitoring System

Oxy maintains fixed gas monitors in the North and South Hobbs Unit that notify operators of an H2S and or CO2 leak. The monitors detect any condition from 0 to 100 PPM with alarm capability at a high level, low level and a fault condition, and shutdown the producing well to minimize the release of gas. This monitoring system can provide notification to the operations personnel before the problem impacts the public. Battery backup is on standby and ensures continued operation of the monitors due to a power failure. All monitors are calibrated and tested every 90 days and records are kept in the Maximo data base. All SFRM sites (Appendix B) have H2S monitors.

Warning Signs & Markers

In accordance to applicable regulations, warning signs containing the words ‘poison gas’ are posted at all surface facilities and buried lines in the high-pressure gas distribution system where the potential exists to be exposed to a release of hydrogen sulfide gas. The posted markers and signs warn of the impending danger if the line ruptures.

Security

All the injection and producing wells that are classified as SFRM (See Appendix B for SFRM locations) are equipped with fencing around the wells. This fencing serves as a deterrent to public access and will remain locked when unattended.

Hydrogen Sulfide Precautions during Operations

Lease Operators and Maintenance personnel are required to have in their possession all the customary personal safety equipment such as hard hats, steel toe shoes and safety glasses. In addition each operator is equipped with a personal H2S monitor and is required to have it with him when working in a known H2S environment. All monitors will be calibrated on a monthly basis to assure proper working condition and accuracy.

Drilling & Workover Operations

Each drilling and workover operation is equipped with detection and monitoring equipment, warning signs, wind direction indicator(s), flare systems, and well control equipment as required by NMAC 9.15.11.11.

C. Coordination with State Emergency Plans

As provided for in the New Mexico Hazardous Materials Emergency Response Plan (HMER), the New Mexico State Police responding to the emergency may elect to assume the position of On-Scene-Commander (OSC) or they may establish a Unified Command of which the OXY OSC may be a key member. The OXY OSC will be the senior OXY employee on-site until when/if the Hobbs area TEAM LEAD or designated relief arrives. Under the Unified Command scenario, the OXY OSC shall cooperate with the other involved emergency responders, such as the New Mexico State Police, local fire department, City Police, Sheriff's Office, NMOCD or other appropriate public emergency response agencies to manage the effective and safe response to the emergency situation. The OSC will ensure that the local authorities have any and all required information regarding the extent (ROE), chemical concentration, hazards and expected timeline for any OXY release so they can appropriately establish an action plan regarding restricted access (road blocks, etc), notification of the public, area evacuation or shelter in place. The ROE tables (see section IV) have been calculated with due consultation and input from the local area fire department to ensure adequacy and usability. These ROE can be used by the fire department electronic mapping software to display detailed maps of any areas of concern, showing public buildings, roadways and other pertinent information needed.
The Hobbs AREA OSC will notify or delegate notifications of all OXY Permian or contract personnel as well as the civil authorities needed for response to the situation. The OXY OSC will assign additional OXY personnel to support roles as needed.

See additional roles and responsibilities in Section III Roles and Responsibilities of Emergency Response Personnel.

Section II. Emergency Procedures

A. Discovery and Implementation of an Immediate Action Plan

1. Upon discovering or recognizing a potentially hazardous H2S release, from an H2S monitor alarm or personal H2S monitor that is triggered at 10 ppm, OXY employees should implement the following immediate action plan:
    a) Move away from the source and get away from the affected area-with continuous *wind direction awareness* (upwind and perpendicular to the release)
    b) Verbally alert other affected personnel and direct them to a safe assembly area
    c) Don personal protective breathing equipment-supplied air, respiratory protection (SCBA-self contained breathing apparatus)
    d) Assist personnel in distress- First Aid/Rescue (always use the Buddy system)
    e) Account for on-site personnel using job safety analysis (JSA) or Security gate head-count
    f) If abatement measures were successful, monitor the ambient air in the area of exposure with quad function H2S monitors to determine when it is safe for re-entry
    g) Notify the TEAM LEAD (or relief) of the situation, then TEAM LEAD or relief will perform (h, i, and j below)
    h) Notify other key HOBBS AREA personnel and alert them to situation.
    i) The Team leader shall then proceed to the site to assess the situation.
    j) The Team leader shall determine if the H2S contingency plan is to be initiated based on monitoring the ambient air. If it is indicated that that release may pose a danger or affect the public in the following concentrations:
        A. 100 ppm in any public area
        B. 500 ppm in any public road
        C. 100 ppm if ROE is greater than 3000 ft. from the release

    k) In the absence of the Team Leader (or relief) the OXY employee at the site shall determine whether or not to activate the Reaction-process H2S contingency plan and shall remain at the scene until relieved by another OXY employee in command with Civil Authorities.

2. Take immediate measures to control the presence of or potential H2S discharged and to eliminate possible ignition sources. Emergency shutdown procedures should be initiated as necessary to correct or control the specific situation. When the required action cannot be accomplished in time to prevent exposing operating personnel or the public to hazardous

concentration of H2S proceed to the following steps, as appropriate for the site specific conditions.

3. Call 911 and give all pertinent information including:
    a. Name, phone number and/or address of person reporting emergency
    b. Location of emergency (well or facility number, cross street and/or lat/long)
    c. Any known injuries or missing persons
    d. Concise statement of what is happening
    e. What type of emergency services are needed on location

4. Contact the first available designated supervisor on the call list. Notify the supervisor of the circumstances and whether or not immediate assistance is needed. The supervisor should notify (or arrange for notification of) other supervisors and other appropriate personnel (including public officials) on the Hobbs Area Emergency Telephone list (Section V).

5. Coordinate with fire dept. regarding blocking unauthorized access to the unsafe area and assist as appropriate. Make ROE's and site drawings available to Emergency Responders. *See section IV*.

6. Coordinate with fire dept regarding notifying and/or evacuating the public and assist as required (through public address, door to door, or reverse 911 as deemed appropriate).

7. Notify state and local officials (NMOCD) and the National Response Center to comply with applicable release reporting requirements in a timely manner.

B. Activation of Hydrogen Sulfide Contingency Plan (Action levels)

In addition to employees equipped with personal monitors, SFRM (Appendix B) facilities in close proximity to public areas are equipped with detectors that activate alarms and can shut down equipment at 10 ppm. The H2S contingency plan shall be activated if it is indicated that the release of product may create a danger or pose a hazard to the general public in the following concentrations:

- 100 ppm - in any public area
- 500 ppm - at any public road
- or if 100 ppm ROE is greater than 3000 feet from the site of the release

This will be determined through monitoring the H2S concentration in the area of the release with quad function monitors.
It is the responsibility of the OSC to ensure activation of the H2S contingency plan, and if necessary to coordinate these efforts in unified command with any state or local emergency responders.

C. Training and Drills

The value of training and drills in emergency response procedures cannot be over emphasized. All OXY personnel and long term contractors shall be trained on the emergency action plan annually. The importance of each role of the emergency responders and the assignment that each person has during an emergency will be stressed. In additional, the need for emergency preparedness will emphasized through the use of drills and other exercises that simulate an emergency in which personnel perform or demonstrate their duties. These exercises will consist of table-top or realistic drills in which equipment is deployed, communications equipment is tested. Public officials will be informed and preferably involved in these annual exercises.

After drills or exercises are completed reviews and critiques will be conducted to identify any potential improvement opportunities. Action items will be agreed and tracked through to implementation. Documentation of the training, drills, attendance and reviews will be on file in the HOBBS AREA files.

The plan will be periodically reviewed and updated anytime its provisions or coverage change.

Oxy will provide training of residents as appropriate on the protective measures to be taken in the event of a release of H2S.

D. Physical Properties and Physiological Effects of Hydrogen Sulfide

Physical Data
Chemical Name: Hydrogen Sulfide
CAS Number: 7783-06-4
UN Number: 1053
DOT Hazard Class: 3.2 (Flammable liquids: *flashpoint between -18°C and 23°C*)
Synonyms: Sulfureted hydrogen, hydrosulfuric acid, dihydrogen sulfide,
Chemical Family: Inorganic sulfide
Chemical Formula: H2S
Normal Physical State: Colorless Gas, slightly heavier than air.
Vapor Density (specific gravity) at 59°F (15° C) and 1 atmosphere = 1.189
Auto ignition Temperature: 500°F (260° C)
Boiling Point: -76.4°F (-60.2° C)
Melting Point: -117°F (-82.9° C)
Flammable Limits: 4.3 – 46 percent vapor by volume in air.
Solubility: Soluble in water and oil; solubility decreases as the fluid temperature increases.
Combustibility: Burns with a blue flame to produce Sulfur Dioxide (SO_2)
Odor and Warning Properties: Hydrogen Sulfide has an extremely unpleasant odor, characteristic of rotten eggs, and is easily detected at low concentrations, however, due to rapid onset of olfactory fatigue and paralysis (inability to smell) ODOR SHALL NOT BE USED AS A WARNING MEASURE

Exposure Limits

The OSHA Permissible Exposure Limit (PEL) of 10 ppm (8-hour TWA) and IDLH of 100ppm.

Physiological Effects

Inhalation at certain concentrations can lead to injury or death. The 300 ppm is considered by the ACGI as Immediately Dangerous to Life and Health (IDLH) Hydrogen Sulfide is an extremely toxic, flammable gas that may be encountered in the production of gas well gas, high-sulfur content crude oil, crude oil fractions, associated gas, and waters.
Since hydrogen sulfide is heavier than air, it can collect in low places.

It is colorless and has a foul, rotten egg odor. In low concentrations, H2S can be detected by its characteristic odor; however smell cannot be relied on to forewarn of dangerous concentrations because exposure to high concentrations (greater than 100 ppm) of the gas rapidly paralyzes the sense of smell due to paralysis of the olfactory nerve. A longer exposure to lower concentrations has a similar desensitizing effect on the sense of smell.
It should be well understood that the sense of smell will be rendered ineffective by hydrogen sulfide, which can result in the individual failing to recognize the presence of dangerously high concentrations.

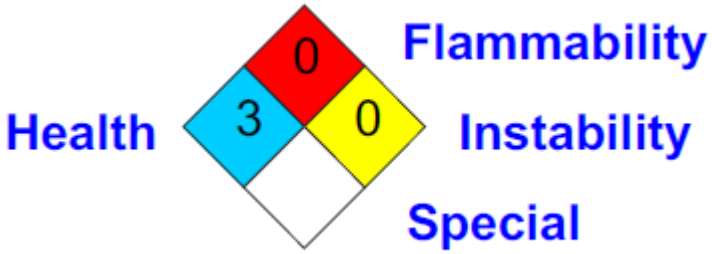
Exposure to hydrogen sulfide causes death by poisoning the respiratory system at the cellular level. Symptoms from repeated exposure to low concentrations usually disappear after not being exposed for a period of time. Repeated exposure to low concentrations that do not produce effects initially may eventually lead to irritation if the exposures are frequent.

Respiratory Protection

Supplied air respiratory protection (SCBA) shall be worn above the initial action level of 10 ppm and until such time that H2S concentrations have been determined by monitoring the area with quad function H2S monitors.

E. Physical Properties and Physiological Effects of Sulfur Dioxide

Physical Data
Chemical Name: Sulfur Dioxide
CAS Number: 7446-09-05
UN Number: 1079
DOT Hazard Class: 2.3 (Poisonous Gases)
Synonyms: Sulfurous acid anhydride, sulfurous oxide, sulfur oxide
Chemical Family: Inorganic
Chemical Formula: SO_2
Normal Physical State: Colorless Gas, heavier than air.
Vapor Density: 2.2
Boiling Point: 148°F
Flammable Limits: Non-flammable (produced by burning hydrogen sulfide)
Solubility: Soluble in water and oil; solubility decreases as the fluid temperature increases.
Odor and Warning Properties: Sulfur Dioxide has a pungent odor associated with burning sulfur. It produces a suffocating effect and produces sulfurous acid on membranes of the nose and throat.



Exposure Limits
The OSHA PEL is 2 ppm as an 8-hour TWA. STEL is 5 ppm averaged over 15 minutes. IDLH is 100 ppm

Physiological Effects
Acute Toxicity: Inhalation at certain concentrations can lead to injury or death. 100 ppm is considered by the ACGIH as Immediately Dangerous to Life and Health.

Respiratory Protection
Supplied air respiratory protection (SCBA) shall be worn above the initial action level of 2 ppm for initial testing and until such time that SO2 concentrations have been determined and action levels established.

F. "Non-OXY" Emergencies

It is possible that an OXY employee could discover a potentially hazardous leak from a pipeline or other facility not operated by OXY. Also, leaks could be reported to OXY personnel but upon investigation, turn out to be from someone else's facility. In such instances, the OXY employee(s) involved should lend assistance without unduly endangering themselves. Generally, such assistance would include the following actions:

1. Alert and/or assist any person apparently in immediate danger.
2. Notify all personnel of the location and nature of the emergency and assistance needed, if any.
3. Notify the Operator of the facility if the identity can be determined.
4. Continue to lend assistance, such as manning road barricades, until relieved by employees of the Operator or Public Safety Personnel.

Section III

Roles and Responsibilities of Emergency Response Personnel

Following is a description of key personnel responsibilities for incident response.

a. **On Scene Commander (OSC):** The civil authorities (Fire Dept.) responding to the emergency may elect to assume the position of OSC or they may establish a Unified Command of which the OXY OSC may be a key member. The first, most senior OXY personnel on the scene will act as the OSC until relieved by either the OXY Operation Team Lead or their designated alternate (for the Plant Operations the Plant Operator will act as initial OSC). The OSC's responsibility is to ensure control of the emergency incident. The OSC will notify or delegate notifications of all OXY Permian or contract personnel needed for response to the situation. The OSC will assign additional OXY personnel to support roles as needed. The initial priority for the OSC is to assess the size and scope of the incident scene. Such factors as the immediate level of danger to employees, contractors, and the general public should be high on the list of considerations. The OSC will act as a liaison between the site ERT and the Business Unit Emergency Management Team (BU EMT). The following is an abbreviated list concerning the responsibilities and recommended sequence for the OXY OSC to achieve his/her responsibilities.

1. Assess the size and scope of the incident scene.
2. Establish preliminary “hot and cold zones” based on the information available.
3. Set up a mobile command post at the scene of the incident.
4. Initiate any “municipal emergency response” requests as deemed appropriate.
5. Ensure that the OXY Emergency Personnel are contacted according to the appropriate call out list (Field or Plant areas).
6. Manage all aspects of the incident as OXY’s OSC or as a key player in a Unified Command.
7. Communicate routinely with the OXY Permian Operations Emergency Manager on the BU EMT.
8. OSC is responsible for assigning support roles as listed below.

Note: The On Scene Commander, or relief, remains on site until the emergency is over. The On Scene Commander ensures repairs have been completed and ensures the operation has returned to normal, before releasing emergency team members.

b. **Operations and Planning Section Chief:** The Operations and Planning Section Chief (OPSC) plays an integral role in interfacing with the various State and Local emergency responders in coordinating all OXY response activities. This allows the OSC to focus on the incident and its big picture decisions. The minimum required actions of the OPSC are as follows:

1. Facilitate onsite responder personnel briefings and status updates.
2. Arrange for humanitarian assistance with the OXY Human Resources Manager if required by the scope of the incident with coordination from the OSC.
3. If requested, assist the local municipalities in a "search and rescue" operation categorized as a specialized employee under the OSHA HAZWOPER guidelines.
4. Perform all other response functions as requested by the OSC.

c. **Technical Specialist:** Technical Specialists, those individuals possessing critical skills, experience and knowledge in specific areas of OXY's or industry operations may be enlisted to assist in providing operational solutions for controlling releases in their areas of expertise. The Technical Specialist will function through the OPSC.

Examples of Technical Specialists include:

- Downhole Specialist
- Critical Well Control Specialist
- Drilling Specialist
- Construction Specialist
- Electrician
- Maintenance Specialist

d. **Facility Engineers:** Facility Engineers will function through the OPSC and assist in providing operational solutions to controlling the size and scope of an incident. The ability to identify process related equipment for isolation and routing for field sources often proves to be one of the biggest challenges during a crisis situation. The following tasks should receive the initial priority for responding Facility Engineers and operations personnel.

1. Identify source location and isolation equipment if available.
2. Provide detailed isolation instructions for responding personnel. Keep in mind the responders may or may not be OXY

employees and may or may not have a good understanding of E&P operations.

3. Be prepared to provide the operational technical portion of update sessions with the onsite field response groups.

4. Begin the operational aspect of a facility recovery plan to first address operational needs to return to "normal" operating mode and second to complete long term considerations for site mitigation.

e. **Safety Officer**: The Safety Officer (SO) plays an integral part in assisting the OSC in managing the onsite issues surrounding an incident. Focused internally on the incident, the Safety Officer is constantly evaluating the safety and health issues involved with the incident and monitors pieces of the response process to allow the OSC to address "bigger picture" issues. The following is an abbreviated list of the responsibilities and recommended sequence for the SO to achieve his/her responsibilities.
   1. Confirm the OSC's preliminary "hot and cold zones" are still applicable or adjust accordingly for such activities as staging areas, media crew locations, decontamination operations, etc.
   2. Address Safety, Health, Environmental, and Regulatory issues including notifications.
   3. If required, coordinate the development of a Site Safety and Health Plan or request this service from the BU EMT.
   4. If required, develop an "incident mitigation or recovery plan" or request this service from the BU EMT.

   Note: The SO must stay abreast of the incident status and situation in order provide relief as an alternate OSC if the situations dictates a change needs to be made.

f. **Logistics Section Chief:** The Logistics Section Chief (LSC) is responsible for assisting the OSC by arranging all aspects of field logistical support. The LSC must accommodate not only OXY responders but also municipal or other industrial responders as requested by the OSC or OPSC. The Logistical Manager's staff has multiple contracts and processes already in place to assist in such issues as food, lodging, vehicles, aircraft, etc. The following is an abbreviated list and recommended sequence to ensure the LSC is able to achieve his/her responsibilities.
   1. Initiate both victim and emergency responder "personnel accountability systems" upon arrival to the incident scene.
   2. Establish and maintain a communication between the OSC and the BU EMT.
   3. Assist in media interactions with Public Information Officer.

4. Initiate and maintain an incident documentation system to ensure all activities are captured and a summary report will be available.
5. Begin supplying logistical support to the incident scene, staging operations, and local areas as soon as practical
6. Coordinate site security capabilities with the OSC, OPCS, SO, and responding municipalities.

g. **Public Information Officer (PIO):** The designated PIO reports to the OSC. The PIO will work very closely with the OSC, OPSC, and the OXY Corporate Communications Representative. Initial priorities for the PIO will include the following:
   1. Establish themselves as the onsite Public Information Officer or media contact for all media inquiries.
   2. Work with Corporate Communications to establish and distribute an initial press release as soon as feasible and with an announced time of when additional updates would be available.
   3. Either assist the OSC or personally conduct all initial media interviews until relieved by a member of Corporate Communications or their designate.

h. **Lea County Emergency Operations Center (EOC) Liaison:** The Lea County EOC Liaison will report to the EOC as required to form communications between the EOC Emergency Manager and the OXY OSC or EMT Emergency manager. This position will only be filled if the event escalates to a level that requires the manning of the Lea County EOC and the event adversely affects, or could affect OXY operations or personnel.

i. **Other Employees**: All other personnel should stand by and wait for instructions from the OSC.
   1. Once accounted for, Hobbs AREA employees may be called upon by the OSC to support in many different directions.
   2. OXY personnel in “staging area” wait to assist in the actual response efforts, escorting vendors to remote locations as a guide, blocking roads, assisting with evacuations, etc.

   It should be understood however, <u>no employee or contractor</u> of the Hobbs Area will be asked to provide incident scene support that they are not comfortable in their ability to perform or have not been specifically trained to do.

j. **Caprock Answering Service:** The Caprock Answering Service is a 24-hr answering service contracted by Oxy. Their phone number is

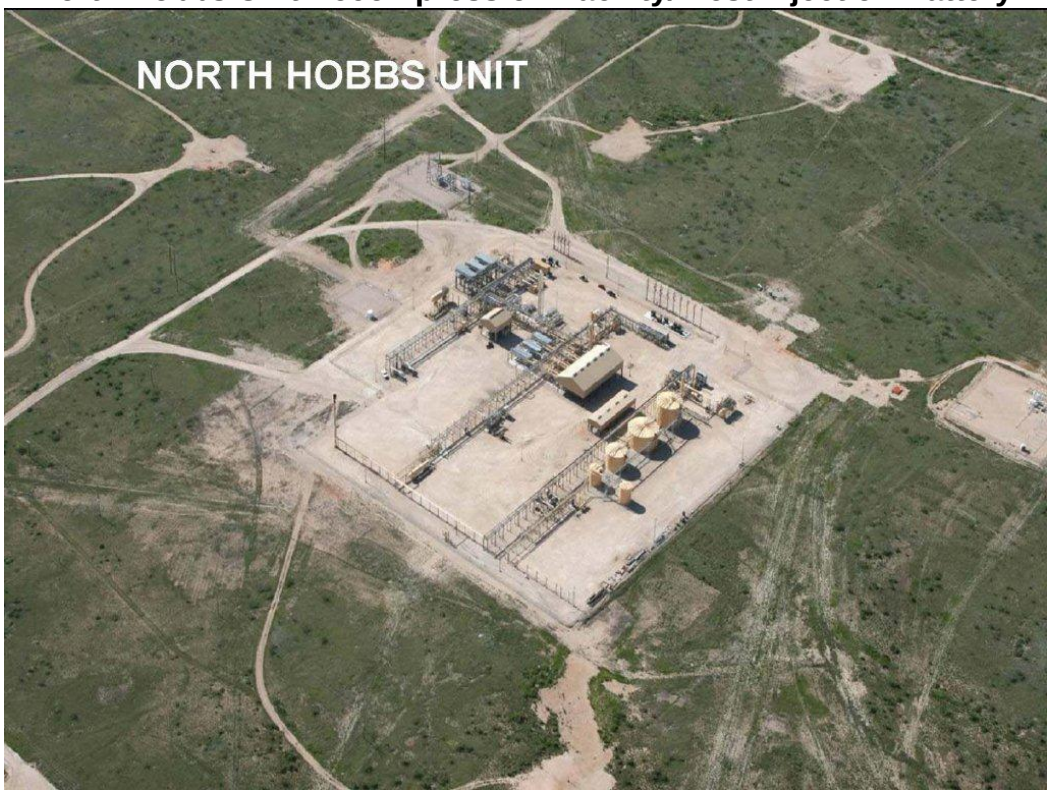
posted on all pipeline markers and on SFRM facilities. The number can be called by any member of the public or an emergency responder. Upon notification of a possible emergency on Occidental Permian property, the answering service operator should ensure that he/she has all of the following information and proceed to call the OXY Technician on call and Operations Team Lead (OTL) and provide:

1. Name, phone number, and/or address of the person reporting emergency.
2. Location of emergency. (Well/Facility Number, cross street and /or Lat/Long
3. Any known injuries or missing persons
4. Concise statement of what is happening.
5. What type of emergency services are needed on location.]

Section IV Appendices

Appendix A Maps of Hobbs Area Facilities

North Hobbs Unit Recompression Facility/West Injection Battery



North Hobbs Unit Central Tank Battery

North Hobbs Unit Satellite 33

North Hobbs Unit Satellite 32WC

North Hobbs Unit Satellite 31EC

North Hobbs Unit Satellite 30C

North Hobbs Unit Satellite 29C

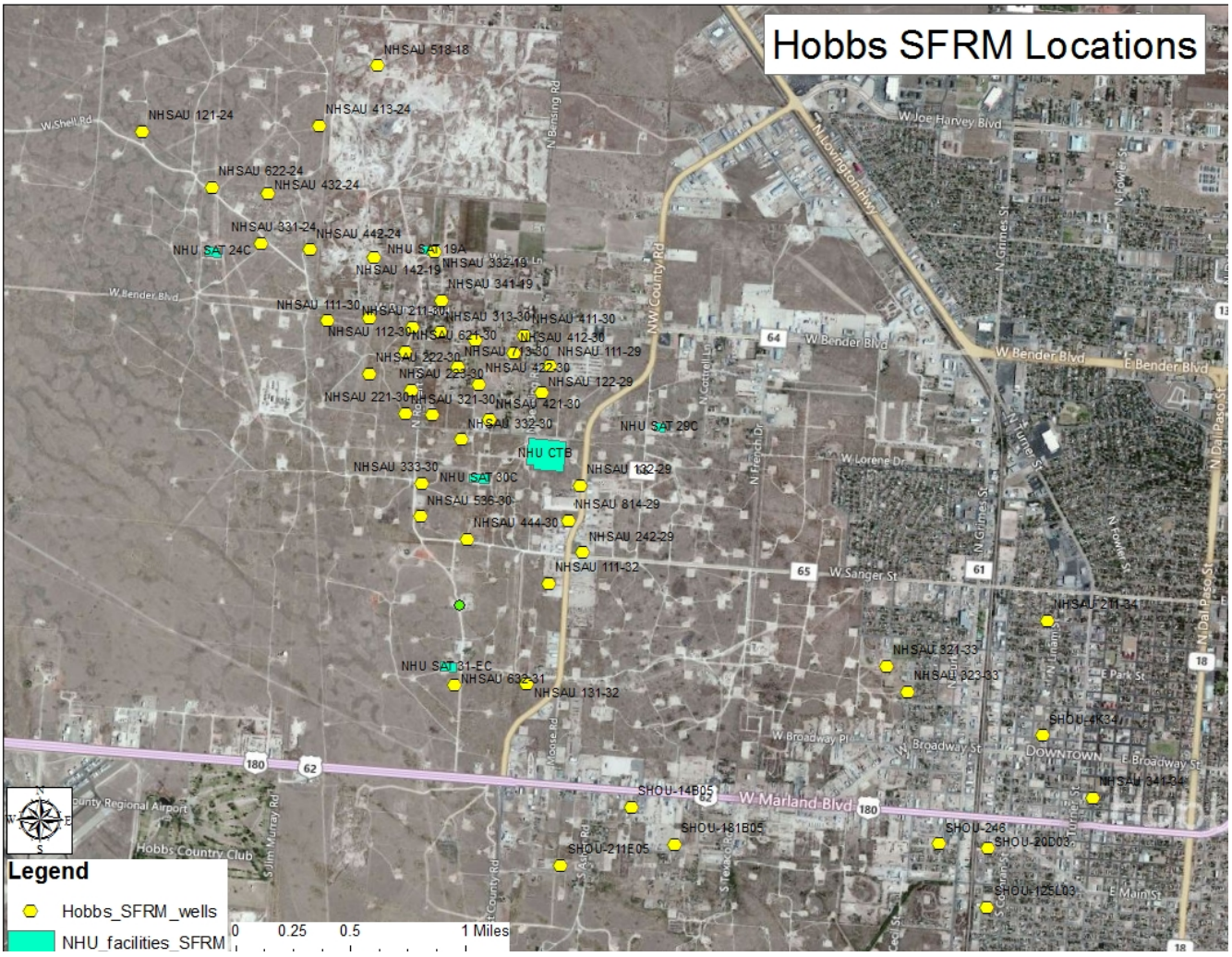
North Hobbs Unit Satellite 28

North Hobbs Satellite 27

North Hobbs Satellite 24C

North Hobbs Satellite 19

Appendix B MAP of SFRM Facilities



Appendix C

List of Hobbs Area Facilities and 100 and 500 ppm ROEs

Unit	Description	H2S Conc. (ppm)	Latitude	Longitude	100 ppm ROE (ft)	500 ppm ROE (ft)
NHU	INJECTION BATTERY	19840	32.7065	-103.1616	463	100
NHU	SATELLITE 19 CO2	11000	32.7289	-103.1894	450	58
NHU	SATELLITE 24 CO2	9220	32.7287	-103.2038	430	55
NHU	SATELLITE 25	28115	32.7176	-103.2005	77	14
NHU	SATELLITE 27	46224	32.7136	-103.1434	142	28
NHU	SATELLITE 28	43430	32.7211	-103.1541	133	29
NHU	SATELLITE 29 CO2	4150	32.7198	-103.1700	103	16
NHU	SATELLITE 30 CO2	7000	32.7074	-103.1837	216	28
NHU	SATELLITE 31 EAST CO2	8960	32.7038	-103.1841	298	37
NHU	SATELLITE 32 EAST CO2	7020	32.7043	-103.1634	220	27
NHU	SATELLITE 32 WEST	39507	32.7010	-103.1723	84	26
NHU	SATELLITE 32 WEST CO2	7650	32.7015	-103.1731	270	28
NHU	SATELLITE 33	54654	32.7036	-103.1556	255	53
NHU	CENTRAL TANK BATTERY	16060	32.7182	-103.1794	630	73
NHU	WEST INJECTION BATTERY	20330	32.7208	-103.1999	746	100
NHU	RECOMPRESSION FACILITY	9760	32.7208	-103.1999	417	144
SHU	CENTRAL TANK BATTERY	119778	32.6801	-103.1479	773	110
SHU	SATELLITE 1	40892	32.6861	-103.1728	410	95
SHU	SATELLITE 2	43163	32.6803	-103.1523	250	85
SHU	SATELLITE 3	53477	32.6797	-103.1426	325	128
SHU	SATELLITE 5	57141	32.6882	-103.1569	248	61
	TURNER TRACT 2 BATTERY	0	32.6797	-103.1426	0	0
	CONOCO A STATE BATTERY	0	32.7027	-103.1530	0	0
	CONOCO STATE 3 & CONOCO STATE 4 BATTERY	0	32.7033	-103.1530	0	0
	B HARDIN BATTERY	0	32.7426	-103.1988	0	0
	HOBBS DEEP A BATTERY	0	32.7426	-103.1988	0	0
	STATE A BATTERY	0	32.7149	-103.1672	0	0
	STATE A AND B BATTERY	139	32.70576	-103.1653	0.34	0
	STATE HF BATTERY	0	32.68205	-103.1523	0	0
	STATE LAND 32 BATTERY	619	32.70220	-103.1679	4.1	0.2

Appendix D

List of North Hobbs Area Low Pressure Producing Wells and 100 and 500 ppm ROEs

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002523919	NHU	111-29	32.7228	-103.17771	9400	205	28
3002507511	NHU	111-31	32.7098	-103.1926	9400	205	28
3002507528	NHU	111-32	32.70918	-103.17663	9400	205	28
3002523207	NHU	114-33	32.70919	-103.15943	9400	205	28
3002507357	NHU	121-19	32.73377	-103.19471	9400	205	28
3002512494	NHU	121-27	32.71829	-103.14303	54654	92	25
3002507420	NHU	121-28	32.71914	-103.16051	9400	205	28
3002507449	NHU	121-29	32.71917	-103.17771	9400	205	28
3002507464	NHU	121-30	32.71916	-103.19474	9400	205	28
3002507559	NHU	121-33	32.70465	-103.16051	9400	205	28
3002528964	NHU	122-28	32.72115	-103.16089	54654	92	25
3002523263	NHU	123-33	32.70556	-103.15943	9400	205	28
3002507410	NHU	131-27	32.71555	-103.14303	54654	92	25
3002507447	NHU	131-29	32.71734	-103.17557	9400	205	28
3002507509	NHU	131-31	32.70279	-103.19258	9400	205	28
3002507544	NHU	131-33	32.70281	-103.16051	9400	205	28
3002523277	NHU	132-28	32.71617	-103.15914	9400	205	28
3002507365	NHU	141-19	32.72641	-103.19474	9400	205	28
3002507383	NHU	141-20	32.72643	-103.17771	9400	205	28
3002505485	NHU	141-24	32.72913	-103.20864	9400	205	28
3002507408	NHU	141-27	32.71193	-103.14343	54654	92	25
3002512496	NHU	141-28	32.71191	-103.16051	9400	205	28
3002507487	NHU	141-30	32.71373	-103.1926	9400	205	28
3002507543	NHU	141-33	32.69828	-103.15944	54654	92	25
3002523246	NHU	142-28	32.71301	-103.1592	9400	205	28
3002528943	NHU	143-32	32.6997	-103.17774	9400	205	28
3002507047	NHU	211-24	32.73831	-103.20651	9400	205	28
3002507463	NHU	211-30	32.72461	-103.1883	9400	205	28
3002507503	NHU	211-31	32.70979	-103.18831	9400	205	28
3002507525	NHU	211-32	32.70827	-103.17126	9400	205	28
3002507579	NHU	211-34	32.70919	-103.13899	9400	205	28
3002530258	NHU	212-32	32.70923	-103.17265	9400	205	28
3002529065	NHU	213-33	32.70744	-103.1536	9400	205	28
3002507355	NHU	221-19	32.73377	-103.18827	9400	205	28
3002509876	NHU	221-24	32.73377	-103.20542	9400	205	28
3002507462	NHU	221-30	32.71916	-103.18831	9400	205	28
3002507520	NHU	221-32	32.70646	-103.17125	54654	92	25

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002507382	NHU	231-20	32.73186	-103.1745	9400	205	28
3002505483	NHU	231-24	32.73095	-103.20541	9400	205	28
3002512495	NHU	231-27	32.71472	-103.13998	54654	92	25
3002507438	NHU	231-29	32.71734	-103.17342	9400	205	28
3002507479	NHU	231-30	32.71735	-103.18831	9400	205	28
3002507507	NHU	231-31	32.70249	-103.18829	9400	205	28
3002507521	NHU	231-32	32.7028	-103.17123	54654	92	25
3002523035	NHU	232-32	32.70189	-103.17204	9400	205	28
3002528410	NHU	233-33	32.70302	-103.15354	9400	205	28
3002529275	NHU	234-33	32.70024	-103.15325	54654	92	25
3002512493	NHU	241-20	32.72642	-103.17127	9400	205	28
3002505482	NHU	241-24	32.72642	-103.2054	9400	205	28
3002505501	NHU	241-25	32.71369	-103.20537	9400	205	28
3002512498	NHU	241-28	32.71192	-103.15406	9400	205	28
3002507533	NHU	241-32	32.69917	-103.17121	9400	205	28
3002507547	NHU	241-33	32.69828	-103.15515	54654	92	25
3002523481	NHU	242-19	32.72667	-103.18937	9400	205	28
3002523304	NHU	243-28	32.71307	-103.15576	9400	205	28
3002505481	NHU	311-24	32.73831	-103.2022	9400	205	28
3002507432	NHU	311-29	32.72278	-103.16695	9400	205	28
3002507491	NHU	311-31	32.70979	-103.18629	9400	205	28
3002507555	NHU	311-33	32.7101	-103.15187	9400	205	28
3002512509	NHU	311-34	32.70819	-103.13456	9400	205	28
3002505541	NHU	311-36	32.71008	-103.20118	54654	92	25
3002529197	NHU	312-30	32.72406	-103.18349	9400	205	28
3002529199	NHU	312-33	32.7106	-103.14989	54654	92	25
3002530263	NHU	313-32	32.70962	-103.16928	9400	205	28
3002507360	NHU	321-19	32.73377	-103.18631	9400	205	28
3002505480	NHU	321-24	32.73377	-103.20329	9400	205	28
3002507416	NHU	321-28	32.71914	-103.15189	54654	92	25
3002507467	NHU	321-30	32.71917	-103.18629	9400	205	28
3002507492	NHU	321-31	32.70495	-103.1859	9400	205	28
3002507548	NHU	321-33	32.70557	-103.15078	9400	205	28
3002507518	NHU	322-32	32.70464	-103.16909	9400	205	28
3002528941	NHU	323-29	32.71853	-103.1697	9400	205	28
3002528951	NHU	323-33	32.70408	-103.14906	9400	205	28
3002505474	NHU	331-23	32.73189	-103.21829	54654	92	25
3002505500	NHU	331-25	32.71643	-103.20118	9400	205	28
3002507412	NHU	331-28	32.71555	-103.15187	54654	92	25
3002507499	NHU	331-31	32.70249	-103.18625	9400	205	28
3002529173	NHU	332-32	32.70072	-103.16922	9400	205	28

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002505446	NHU	341-13	32.74194	-103.2022	9400	205	28
3002512491	NHU	341-19	32.72642	-103.18629	9400	205	28
3002507371	NHU	341-20	32.72641	-103.16909	54654	92	25
3002505490	NHU	341-24	32.72642	-103.20332	9400	205	28
3002512489	NHU	341-28	32.71192	-103.15187	9400	205	28
3002507445	NHU	341-29	32.7119	-103.16909	9400	205	28
3002524665	NHU	341-30	32.71372	-103.18415	9400	205	28
3002512757	NHU	341-33	32.69829	-103.15075	54654	92	25
3002507567	NHU	341-34	32.69829	-103.13457	54654	92	25
3002529931	NHU	342-28	32.71046	-103.15009	9400	205	28
3002529906	NHU	343-32	32.69827	-103.16662	9400	205	28
3002523522	NHU	411-24	32.7374	-103.19899	9400	205	28
3002507490	NHU	411-31	32.71008	-103.17986	9400	205	28
3002507516	NHU	411-32	32.71009	-103.16265	9400	205	28
3002507556	NHU	411-33	32.70921	-103.1465	9400	205	28
3002505479	NHU	412-24	32.73921	-103.19683	9400	205	28
3002523384	NHU	412-30	32.72343	-103.18057	9400	205	28
3002529932	NHU	412-33	32.7056	-103.14606	9400	205	28
3002528879	NHU	414-24	32.74009	-103.19992	9400	205	28
3002505456	NHU	421-14	32.74829	-103.21406	9400	205	28
3002507368	NHU	421-19	32.73377	-103.18304	9400	205	28
3002505466	NHU	421-23	32.73559	-103.21401	9400	205	28
3002523081	NHU	421-24	32.73468	-103.19825	9400	205	28
3002505504	NHU	421-25	32.71916	-103.19689	9400	205	28
3002507468	NHU	421-30	32.71917	-103.182	9400	205	28
3002507493	NHU	421-31	32.70722	-103.17984	9400	205	28
3002512507	NHU	421-32	32.70465	-103.16265	9400	205	28
3002507554	NHU	421-33	32.70558	-103.14649	9400	205	28
3002528887	NHU	422-31	32.70478	-103.1807	9400	205	28
3002523130	NHU	424-32	32.70569	-103.16373	9400	205	28
3002505487	NHU	431-24	32.73185	-103.19686	9400	205	28
3002507413	NHU	431-28	32.71555	-103.14759	9400	92	25
3002507458	NHU	431-29	32.71735	-103.16265	9400	205	28
3002507474	NHU	431-30	32.71734	-103.182	9400	205	28
3002512758	NHU	431-31	32.70279	-103.17981	9400	205	28
3002507553	NHU	431-33	32.70176	-103.14713	9400	92	25
3002530308	NHU	433-33	32.70156	-103.14753	9400	205	28
3002512732	NHU	441-13	32.74103	-103.19683	9400	205	28
3002507366	NHU	441-19	32.72643	-103.17986	9400	205	28
3002505473	NHU	441-23	32.72824	-103.21398	9400	92	25
3002505486	NHU	441-24	32.72641	-103.19688	9400	205	28

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002505499	NHU	441-25	32.71373	-103.19689	9400	205	28
3002507444	NHU	441-29	32.7119	-103.16265	9400	205	28
3002507473	NHU	441-30	32.7119	-103.17986	9400	205	28
3002507536	NHU	441-32	32.69827	-103.16373	9400	205	28
3002534906	NHU	511-33	32.70732	-103.15962	9400	205	28
3002534907	NHU	512-32	32.70502	-103.17207	9400	205	28
3002534980	NHU	513-33	32.701	-103.15861	9400	205	28
3002536245	NHU	514-32	32.7047	-103.17799	9400	205	28
3002538023	NHU	516-13	32.74146	-103.2088	9400	205	28
3002538087	NHU	517-18	32.74185	-103.19361	9400	205	28
3002534643	NHU	521-33	32.70821	-103.15668	9400	205	28
3002534372	NHU	523-33	32.70553	-103.15359	9400	205	28
3002534993	NHU	524-33	32.70071	-103.15616	9400	92	25
3002536216	NHU	525-30	32.71634	-103.188830	9400	205	28
3002523334	NHU	526-33	32.70556	-103.15622	9400	92	25
3002536247	NHU	527-30	32.71272	-103.18994	9400	205	28
3002538110	NHU	529-18	32.74225	-103.18945	9400	205	28
3002534374	NHU	531-32	32.70228	-103.16647	9400	205	28
3002512504	NHU	532-32	32.70465	-103.16694	9400	205	28
3002535541	NHU	533-29	32.71739	-103.16775	9400	205	28
3002535758	NHU	535-33	32.70251	-103.15338	9400	92	25
3002536149	NHU	537-32	32.70852	-103.166120	9400	205	28
3002536281	NHU	538-30	32.71643	-103.18479	9400	205	28
3002536213	NHU	539-24	32.73122	-103.201920	9400	205	28
3002534964	NHU	541-32	32.70848	-103.16346	9400	205	28
3002534375	NHU	542-32	32.70099	-103.16364	9400	205	28
3002534644	NHU	544-29	32.71347	-103.16494	9400	205	28
3002534416	NHU	545-33	32.70574	-103.15117	9400	205	28
3002536280	NHU	546-30	32.71553	-103.18078	9400	205	28
3002536242	NHU	547-30	32.71281	-103.18098	9400	205	28
3002536150	NHU	548-32	32.70556	-103.166370	9400	205	28
3002536193	NHU	549-24	32.73052	-103.198430	9400	205	28
3002535467	NHU	611-24	32.73783	-103.21118	9400	205	28
3002535450	NHU	612-24	32.73405	-103.21161	9400	205	28
3002535370	NHU	613-24	32.73002	-103.21114	9400	205	28
3002535555	NHU	614-24	32.73424	-103.20076	9400	205	28
3002537127	NHU	615-19	32.73882	-103.19444	9400	205	28
3002537410	NHU	616-19	32.73043	-103.19364	9400	205	28
3002537102	NHU	617-30	32.72309	-103.19293	9400	205	28
3002537120	NHU	618-30	32.71631	-103.19863	9400	205	28
3002535332	NHU	621-30	32.72302	-103.18872	9400	205	28

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002534869	NHU	623-29	32.71601	-103.17067	9400	205	28
3002534870	NHU	624-29	32.71413	-103.1724	9400	205	28
3002537213	NHU	625-29	32.72074	-103.17559	9400	205	28
3002537235	NHU	627-19	32.73071	-103.19152	9400	205	28
3002538524	NHU	628-19	32.73931	-103.18697	9400	205	28
3002535384	NHU	634-29	32.71307	-103.16828	9400	205	28
3002537128	NHU	636-29	32.72073	-103.17093	9400	205	28
3002538125	NHU	638-19	32.739	-103.18491	9400	205	28
3002537118	NHU	641-25	32.72299	-103.19839	9400	205	28
3002537105	NHU	642-25	32.71554	-103.19734	9400	205	28
3002535376	NHU	643-29	32.71753	-103.16551	9400	205	28
3002535349	NHU	644-28	32.71556	-103.14228	54654	92	25
3002538518	NHU	645-13	32.74221	-103.199150	9400	205	28
3002538071	NHU	646-13	32.74112	-103.21256	9400	205	28
3002534983	NHU	713-30	32.72229	-103.18468	9400	205	28
3002537474	NHU	721-29	32.72342	-103.17274	9400	205	28
3002537428	NHU	722-31	32.70741	-103.18722	9400	205	28
3002537481	NHU	731-25	33.44557	-102.46226	9400	205	28
3002537445	NHU	733-19	32.73021	-103.1823	9400	205	28
3002535011	NHU	734-33	32.69683	-103.15188	54654	92	25
3002537480	NHU	741-25	33.44557	-102.46226	9400	205	28
3002537475	NHU	742-29	32.72098	-103.16681	9400	205	28
3002535451	NHU	743-31	32.70008	-103.18036	9400	205	28
3002535527	NHU	814-29	32.71323	-103.17549	9400	205	28
3002535743	NHU	843-33	32.7017	-103.145410	54654	92	25
3002535534	NHU	844-32	32.69938	-103.16083	9400	205	28
3002535385	NHU	913-32	32.70155	-103.17472	9400	205	28
3002536011	NHU	923-29	32.71679	-103.17366	9400	205	28
3002537435	NHU	943-19	32.73332	-103.17953	9400	205	28
3002535999	NHU	944-29	32.71521	-103.16434	9400	205	28

Appendix E

List of South Hobbs Area Low Pressure Producing Wells and 100 and 500 ppm ROEs.

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002507571	SHU	002E34	32.70557	-103.1422	57141	102	25
3002507569	SHU	003L34	32.70193	-103.14251	57141	102	25
3002507570	SHU	004K34	32.70199	-103.13867	57141	102	25
3002507614	SHU	014B05	32.69554	-103.16911	57141	102	25
3002507619	SHU	015A05	32.69465	-103.16372	57141	102	25
3002507605	SHU	016D04	32.69465	-103.15943	57141	102	25
3002512768	SHU	017C04	32.69466	-103.15514	57141	102	25
3002507629	SHU	018B04	32.69466	-103.15075	57141	102	25
3002507598	SHU	019A04	32.69467	-103.14646	57141	102	25
3002507603	SHU	020D03	32.69467	-103.14217	57141	102	25
3002507602	SHU	044J04	32.68827	-103.1497	57141	102	25
3002523415	SHU	086K10	32.67376	-103.13899	57141	102	25
3002526117	SHU	122E04	32.69176	-103.14487	57141	102	25
3002526119	SHU	124J04	32.68721	-103.15207	57141	102	25
3002526120	SHU	125L03	32.69094	-103.14185	57141	102	25
3002528334	SHU	130F04	32.69261	-103.15701	57141	102	25
3002528335	SHU	131G04	32.69267	-103.15244	57141	102	25
3002528336	SHU	132H04	32.69156	-103.14817	57141	102	25
3002528337	SHU	133E03	32.69143	-103.14189	57141	102	25
3002528338	SHU	135F04	32.68944	-103.15717	57141	102	25
3002528339	SHU	136F04	32.68963	-103.15343	57141	102	25
3002528340	SHU	137I04	32.68868	-103.14816	57141	102	25
3002528341	SHU	138I04	32.68878	-103.14489	57141	102	25
3002528342	SHU	139F03	32.69084	-103.13802	57141	102	25
3002528343	SHU	140L04	32.68599	-103.15751	57141	102	25
3002528344	SHU	141K04	32.68598	-103.15312	57141	102	25
3002528345	SHU	142O04	32.68553	-103.14879	57141	102	25
3002528346	SHU	143P04	32.68512	-103.14541	57141	102	25
3002528347	SHU	144N03	32.68352	-103.14189	57141	102	25
3002528348	SHU	145K03	32.68351	-103.1379	57141	102	25
3002528349	SHU	146D09	32.6817	-103.15762	57141	102	25
3002528350	SHU	147C09	32.68172	-103.15319	57141	102	25
3002528351	SHU	148A09	32.6814	-103.14756	57141	102	25
3002528352	SHU	149A09	32.68152	-103.14558	57141	102	25
3002528353	SHU	150M03	32.68102	-103.14038	57141	102	25
3002528356	SHU	153C09	32.67887	-103.15671	57141	102	25
3002528357	SHU	154B09	32.67872	-103.1528	57141	102	25

ID Number	Unit	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002528358	SHU	155H09	32.67874	-103.14944	57141	102	25
3002528359	SHU	156H09	32.67817	-103.14542	57141	102	25
3002528360	SHU	157D10	32.6785	-103.1403	57141	102	25
3002528363	SHU	160G09	32.67512	-103.15223	57141	102	25
3002528365	SHU	162H09	32.6747	-103.14563	57141	102	25
3002528975	SHU	177D05	32.69482	-103.17735	57141	102	25
3002528976	SHU	178C05	32.69408	-103.17303	57141	102	25
3002528977	SHU	179F05	32.69236	-103.17062	57141	102	25
3002528978	SHU	180B05	32.69373	-103.16864	57141	102	25
3002528979	SHU	181B05	32.69338	-103.16572	57141	102	25
3002528980	SHU	183E05	32.68947	-103.17409	57141	102	25
3002529083	SHU	184F05	32.6916	-103.17063	57141	102	25
3002529084	SHU	185I05	32.68941	-103.16546	57141	102	25
3002528981	SHU	186E04	32.68981	-103.16087	57141	102	25
3002528982	SHU	188K05	32.68601	-103.17287	57141	102	25
3002529085	SHU	189J05	32.68654	-103.1696	57141	102	25
3002529082	SHU	190I05	32.68621	-103.16514	57141	102	25
3002528983	SHU	191L04	32.68626	-103.16027	57141	102	25
3002529054	SHU	194O05	32.68281	-103.16905	57141	102	25
3002528986	SHU	196M04	32.68242	-103.16144	57141	102	25
3002529677	SHU	210D34	32.70904	-103.1425	57141	102	25
3002529750	SHU	211E05	32.69153	-103.17409	57141	102	25
3002529730	SHU	214E04	32.69174	-103.15978	57141	102	25
3002529891	SHU	220C04	32.69255	-103.15676	57141	102	25
3002529892	SHU	221B04	32.69347	-103.15374	57141	102	25
3002529893	SHU	222L34	32.70203	-103.14167	57141	102	25
3002530486	SHU	223N34	32.69994	-103.1385	57141	102	25
3002530487	SHU	224B04	32.69469	-103.14943	57141	102	25
3002531211	SHU	225M34	32.69826	-103.14256	57141	102	25
3002531212	SHU	228D05	32.69463	-103.175	57141	102	25
3002531427	SHU	231F04	32.69218	-103.15474	57141	102	25
3002531419	SHU	232G04	32.69178	-103.14962	57141	102	25
3002531428	SHU	234F04	32.68966	-103.15571	57141	102	25
3002531429	SHU	236K04	32.68584	-103.15588	57141	102	25
3002534946	SHU	239	32.68743	-103.16285	57141	102	25
3002535342	SHU	240	32.69881	-103.13909	57141	102	25
3002535318	SHU	241	32.69357	-103.1599	57141	102	25
3002535305	SHU	242	32.69221	-103.1651	57141	102	25
3002537266	SHU	243	32.69193	-103.15468	57141	102	25
3002535742	SHU	244	32.70484	-103.14250	57141	102	25
3002537271	SHU	246	32.69469	-103.14584	57141	102	25

Appendix F

List of Hobbs Area Produced Gas Injection Wells and 100 and 500 ppm ROEs.

ID Number	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002507422	111-28	32.72277	-103.16051	9760	325	44
3002507077	111-30	32.7246	-103.19474	9760	325	44
3002512505	111-33	32.71009	-103.16051	9760	325	44
3002507358	112-19	32.7374	-103.19255	9760	325	44
3002529063	112-30	32.72496	-103.19155	9760	325	44
3002507526	112-32	32.70722	-103.17769	9760	325	44
3002529064	113-30	32.72191	-103.19518	9760	325	44
3002505476	121-24	32.73559	-103.20972	9760	325	44
3002507514	121-31	32.70556	-103.19258	9760	325	44
3002528953	122-29	32.72113	-103.1782	9760	325	44
3002507361	131-19	32.73185	-103.19471	9760	325	44
3002523206	131-20	32.73006	-103.17772	9760	325	44
3002505484	131-24	32.73186	-103.20867	9760	325	44
3002512497	131-28	32.71735	-103.16051	9760	325	44
3002507481	131-30	32.71736	-103.19474	9760	325	44
3002507527	131-32	32.70279	-103.17767	9760	325	44
3002526917	132-29	32.71545	-103.17483	9760	325	44
3002527139	132-32	32.7003	-103.1745	9760	325	44
3002505437	141-13	32.74194	-103.21081	9760	325	44
3002507448	141-29	32.7119	-103.17772	9760	325	44
3002507523	141-32	32.69735	-103.17763	9760	325	44
3002527138	142-19	32.72881	-103.19157	9760	325	44
3002528265	142-32	32.69813	-103.17478	9760	325	44
3002528411	142-33	32.70757	-103.16097	9760	325	44
3002531662	144-32	32.69861	-103.17489	9760	325	44
3002507564	211-33	32.7101	-103.15407	9760	325	44
3002529129	212-24	32.73665	-103.20447	9760	325	44
3002529026	212-33	32.71044	-103.15696	9760	325	44
3002507429	221-28	32.72024	-103.15621	9760	325	44
3002507560	221-33	32.70466	-103.15729	9760	325	44
3002526934	222-29	32.72175	-103.17277	9760	325	44
3002526833	222-30	32.72147	-103.19128	9760	325	44
3002527140	222-32	32.70626	-103.17431	9760	325	44

ID Number	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002526975	222-33	32.70683	-103.1568	9760	325	44
3002528555	223-30	32.72065	-103.18799	9760	325	44
3002528944	223-32	32.70376	-103.17413	9760	325	44
3002507362	231-19	32.73186	-103.18828	9760	325	44
3002507421	231-28	32.71465	-103.15727	9760	325	44
3002507545	231-33	32.70282	-103.15729	9760	325	44
3002529172	232-19	32.73239	-103.1912	9760	325	44
3002528882	232-28	32.71733	-103.15719	9760	325	44
3002526935	232-30	32.71485	-103.19136	9760	325	44
3002526834	232-33	32.70085	-103.15713	9760	325	44
3002528942	233-30	32.71775	-103.191	9760	325	44
3002505436	241-13	32.74194	-103.20652	9760	325	44
3002526832	242-24	32.72908	-103.20446	9760	325	44
3002529276	242-28	32.71421	-103.15565	9760	325	44
3002528413	242-29	32.71127	-103.17424	9760	325	44
3002507369	311-19	32.73652	-103.18631	9760	325	44
3002507417	311-28	32.72187	-103.15189	9760	325	44
3002529130	312-24	32.7401	-103.20431	9760	325	44
3002527060	312-31	32.70753	-103.18371	9760	325	44
3002529017	312-32	32.70753	-103.18371	9760	325	44
3002523270	313-30	32.7244	-103.18617	9760	325	44
3002505463	321-23	32.73559	-103.21831	9760	325	44
3002507431	321-29	32.71915	-103.16695	9760	325	44
3002512506	321-32	32.70646	-103.16909	9760	325	44
3002528883	322-29	32.72158	-103.16922	9760	325	44
3002530204	322-31	32.70418	-103.18365	9760	325	44
3002527169	322-33	32.70721	-103.15026	9760	325	44
3002526973	323-32	32.70723	-103.16613	9760	325	44
3002505488	331-24	32.72914	-103.20011	9760	325	44
3002507472	331-30	32.71742	-103.1863	9760	325	44
3002507538	331-32	32.7028	-103.16909	9760	325	44
3002529195	332-19	32.72945	-103.18703	9760	325	44
3002531655	332-28	32.7187	-103.14712	9760	325	44
3002528954	332-30	32.71779	-103.18399	9760	325	44
3002528955	333-30	32.71485	-103.18668	9760	325	44
3002507500	341-31	32.70006	-103.18303	9760	325	44
3002507539	341-32	32.69736	-103.16909	9760	325	44
3002529062	342-24	32.72591	-103.20048	9760	325	44
3002528884	342-29	32.71437	-103.1697	9760	325	44
3002528266	342-32	32.69776	-103.16625	9760	325	44

ID Number	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002528267	342-33	32.69682	-103.15271	9760	325	44
3002512783	411-23	32.73831	-103.21402	9760	325	44
3002507470	411-30	32.72462	-103.17985	9760	325	44
3002505539	411-36	32.7101	-103.19689	9760	325	44
3002528414	413-24	32.73682	-103.19644	9760	325	44
3002505478	422-24	32.73377	-103.19686	9760	325	44
3002526933	422-25	32.72125	-103.20004	9760	325	44
3002527243	422-28	32.71944	-103.14689	9760	325	44
3002527059	422-30	32.72134	-103.18301	9760	325	44
3002529074	422-32	32.70719	-103.16194	9760	325	44
3002528268	422-33	32.70503	-103.14596	9760	325	44
3002529198	423-32	32.70402	-103.16574	9760	325	44
3002505445	431-13	32.74462	-103.19901	9760	325	44
3002522601	431-19	32.73006	-103.18201	9760	325	44
3002505467	431-23	32.73187	-103.2140	9760	325	44
3002507537	431-32	32.70281	-103.16265	9760	325	44
3002529073	432-24	32.73233	-103.19995	9760	325	44
3002528957	432-30	32.7172	-103.17937	9760	325	44
3002526974	432-32	32.7003	-103.16581	9760	325	44
3002528269	432-33	32.70154	-103.14767	9760	325	44
3002507411	441-28	32.71193	-103.14651	9760	325	44
3002528878	442-13	32.74342	-103.19648	9760	325	44
3002528881	442-19	32.72855	-103.18002	9760	325	44
3002529098	442-24	32.72897	-103.19645	9760	325	44
3002528885	442-29	32.71438	-103.16229	9760	325	44
3002527001	442-30	32.71456	-103.1822	9760	325	44
3002528959	444-30	32.71158	-103.18298	9760	325	44
3002538114	518-18	32.74086	-103.19241	9760	325	44
3002534373	534-33	32.70311	-103.1516	9760	325	44
3002536286	536-30	32.71275	-103.18661	9760	325	44
3002534997	543-33	32.70376	-103.14548	9760	325	44
3002537152	622-24	32.73241	-103.20419	9760	325	44
3002537250	626-29	32.71736	-103.17153	9760	325	44
3002534994	631-33	32.70961	-103.15197	9760	325	44
3002537214	632-31	32.70231	-103.18313	9760	325	44
3002537446	633-19	32.73381	-103.18338	9760	325	44
3002537409	635-29	32.71508	-103.16677	9760	325	44
3002537101	637-24	32.73641	-103.20048	9760	325	44
3002537451	711-29	32.72478	-103.17342	9760	325	44
3002537558	712-29	32.71903	-103.17524	9760	325	44

ID Number	Well Number	Latitude	Longitude	H2S Conc. (ppm)	100 ppm ROE (ft)	500 ppm ROE (ft)
3002534871	813-29	32.71498	-103.17721	9760	325	44
3002540859	945-19	32.73361	-103.18225	9760	325	44

Appendix G *H2S RELEASE CHECKLIST:*

- ☐ OSC to determine if release could become a hazard to the public.
- ☐ If release is not a hazard, take appropriate action to eliminate the leak.
- ☐ If release is determined to be a hazard, and cannot be immediately eliminated:
  - ☐ Notify appropriate Operations Team Leaders.
  - ☐ Proceed to area with all necessary personal protective equipment and monitors.
  - ☐ Barricade roads as determined necessary and appropriate.
  - ☐ Call civil authorities for assistance.
  - ☐ Alert anyone within the immediate area of the potential hazard.
- ☐ Ensure hospital is notified to alert staff for possible injuries and allow them the opportunity to initiate their emergency action plan.
- ☐ Ensure every resident and/or business within the contaminated zone is contacted by the fastest possible means and advised about evacuation or shelter in place as appropriate.
- ☐ Assist local authorities in any way possible to mitigate the situation and keep them informed of all hazards and operational progress and strategy.
- ☐ Ensure operational isolation to Minimize release.

Section V Emergency Telephone Lists

TABLE OF CONTENTS

EMERGENCY TELEPHONE LISTS:

OXY PERMIAN EMERGENCY ANSWERING SERVICE	**713-935-7210**
CAPROCK ANSWERING SERVICE	**575-397-8200/8255**

FIELD OPERATIONS EMERGENCY CALL-OUT LIST

Scott Hodges **Operation Team Leader** **Hobbs, NM**	**Office** **Cell** **Home**	**575-397-8211** **432-238-4405** **NA**
Alternate: **Tony Aguilar**	**Office** **Cell** **Home**	**575-397-8251** **575-390-6312** **575-441-7266**
Alternate: **Glen Hubbard**	**Office** **Cell** **Home**	**575-397-8276** **575-631-6881** **575-392-7663**
Brian Suttton **Well Servicing Coord.**	**Office** **Cell** **Home**	**806-592-6336** **806-215-0094** **NA**
Calvin Stewart **Well Operations Team Lead**	**Office** **Cell** **Home**	**806-592-6256** **806-215-0370** **806-592-5078**
Hollen Wheeler **Mgr. External Relations**	**Office** **Cell** **Home**	**432-685-5904** **432-741-3017** **432-230-9828**

PLANT OPERATIONS EMERGENCY CALL-OUT LIST – Fax 806-592-7355

Name	Title	Residence Phone	Office Phone	Cellular or Phone patch or Pager
Jaime Perez	Central Plt. OTL	806-592-3192	806-592-3379	806-215-0281(C)
Ronnie Popejoy	HES Specialist	806-229-5381	806-592-7310	806-215-0527 (C)
Joey Rogers	HES Specialist		806-592-7311	806-215-3466
Nick Edwards	Safety Supervisor		432-685-5843	806-777-2615
Tom Janiszewski	Chief Counsel	281-913-7273	713-366-5529	713-560-8049
Hollen Wheeler	Public and Government Affairs	432-230-9828	432-685-5904	432-741-0317

ENGINEERING SUPPORT

Name	Title	Office Phone	Home	Cellular
Greg Vencil	**Engineer**	**713-366-5110**	**281-535-0198**	**713-560-8064**
Jim Mathis	**Engineer**	**806-592-6479**	**432-524-2045**	**806-215-0179**
Chris Frei	**Engineer**	**806-592-7336**	**806-637-7017**	**806-215-0178**

EMERGENCY TELEPHONE LISTS:

HES SUPPORT PERSONNEL

Nick Edwards **HES Lead**	**Office** **Cell**	**432-685-5843** **806-777-2615**

OXY PERMIAN MIDLAND OFFICE

Herbie Bruton **Field Operations** **Manager**	**Office** **Cell** **Home**	**432-685-5811** **432-634-6152** **432-523-4021**
Bill Elliott **Operations Manager**	**Office** **Cell** **Home**	**432-685-5845** **806-557-6736** **432-689-6309**
Pete Maciula **HES Lead**	**Office** **Cell** **Home**	**432-685-5667** **432-557-2450** **432-552-2112**

OXY PERMIAN HOUSTON OFFICE

Jeff Simmons **President and** **General Manager**	**Office** **Cell** **Fax**	**713-316-5124** **713-560-8073** **281-985-8772**
Bob Barnes **Manager of Operations**	**Office** **Cell** **Fax**	**713- 215-7906** **832-433-0763** **713-985-1683**
John Kirby **HES Team Leader**	**Office** **Cell** **Home**	**713-366-5460** **281-974-9523** **281-458-1622**

EMERGENCY SERVICES
OUTSIDE SUPPORT PHONE NUMBERS

MEDICAL

HOSPITAL NAME	ADDRESS	CITY	PHONE NUMBER
Lea Regional Hospital	5419 Lovington Highway	Hobbs, NM	575-492-5000
Memorial Hospital	209 NW 8th	Seminole, TX	432-758-5811
Nor-Lea General Hospital	1600 N. Main Street	Lovington, NM	575-396-6611
Yoakum County Hospital	412 Mustang Drive	Denver City, TX	806-592-5484
Brownfield Regional Medical Center	705 E. Felt	Brownfield, TX	806-637-3551
Covenant Health Systems	4000 24th Street	Lubbock, TX	806-725-6000
Covenant Medical Center	2615 19th Street	Lubbock, TX	806-725-1011
University Medical Center (county Hospital)	602 Indiana	Lubbock, TX	806-775-8200

AMBULANCE

Hobbs, New Mexico	911 or 575-397-9308
Lovington, New Mexico	911 or 575-396-2359
Eunice, New Mexico	911 or 575-394-3258
Seminole, Texas	432-758-9871
Denver City, Texas	806-592-3516

AIR AMBULANCE

Native Air Hobbs NM 88240	1-800-627-7106
AEROCARE Methodist Hospital Lubbock, Texas - Aerocare will respond to a call from any OXY personnel. ***ETA Lubbock to Hobbs 42 minutes. (Seminole Based)***	1-800-627-2376

LAW ENFORCEMENT 911

POLICE

CITY	PHONE NUMBER
Hobbs, New Mexico	911 or 575-397-9265
Eunice, New Mexico	911 or 575-394-2112
Lovington, New Mexico	911 or 575-396-2811

SHERIFF

CITY/COUNTY	PHONE NUMBER
Lea County Sheriff - Lovington	911 or 575-396-3611

STATE HIGHWAY PATROL

CITY	PHONE NUMBER
Hobbs, New Mexico	911 or 575-392-5588

FIRE DEPARTMENT

CITY	PHONE NUMBER
Hobbs, New Mexico	911 or 575-397-9308
Lovington, New Mexico	911 or 575-396-2359
Denver City, Texas	911 or 806-592-3516
Seminole, Texas	911 or 432-758-9871

GOVERNMENT AGENCIES

AGENCY	PHONE NUMBER
New Mexico Oil Conservation Division	575-393-6161
Bureau of Land Management	575-393-3612
Air Quality Bureau, Santa Fe, NM	505-476-4300
LEPC – Lorenzo Velasquez, Hobbs, NM	575-391-2961 Office 575-397-7413 Fax 575-605-6561 Cell

AIRPORTS

CITY	PHONE NO.
Lea County Airport - Carlsbad Hwy	575-393-6612
Lea County Lovington Airport	575-396-9911
Lubbock Preston Smith International Airport	806-762-6411
Midland International Airport	432-560-2200

POISON CONTROL CENTER	1-800-432-6866

CHEMTREC**	1-800-424-9300

**** Call CHEMTREC for questions concerning response or chemical hazards in the event of a chemical spill.**

NALCO 24 HR EMERGENCY	1-800-462-5378 or 1-800-IM-ALERT

NALCO 24 HR MSDS FAX	281-263-7245

HOBBS AREA OPERATIONAL PERSONNEL

EMPLOYEE	CELL PHONE NUMBERS	HOME PHONE NUMBERS
Cordero, Pete	806-215-0066	575-392-3645
Henson, Willie	806-215-2168	575-393-5418
Hubbard, Glen	575-631-6881	575-392-7663
Jones, Steve	575-631-4469	575-394-3124
King, Jimmy	575-390-0068	575-392-8854
Ragsdale, Monty	575-390-3803	575-392-1740
Shaffer, Jessie	806-215-0115	575-441-6795
Whitley, Chuck	575-631-6259	575-397-0018
Baeza, Carlos	575-390-0018	--
Laster, Mark	575-942-3346	--
Savage, Tony	575-602-8328	--
Haynes, Mark	575-499-4454	--
Daniel Tucker	575-499-4992	--
Hobbs Area Well Runner	806-215-0310	--
Hobbs Area Night Rider	806-215-0304	--

Hobbs Treating Facility

FAX No. 806-592-6484

Name	Title	Residence Phone	Office Phone	Cellular or Phone patch or Pager
Jaime Perez	Central Plt. OTL	806-592-3192	806-592-3379	806-215-0281(C)
Doug Isbell	OP. Spec.	806-592-5159	806-592-7360	806-215-1495 (C)
Clay Lambert	OP. Spec	(806)215-1331	(806) 592-7304	(806)215-0410 (C)
Ronnie Popejoy	HES Tech	806-229-5381	806-592-7315	806-215-0527 (C)

Gathering System Personnel:

Callout Service 806-592-9055

Name	Title	Residence Phone	Office Phone	Cellular or Phone patch or Pager
David(Chip) Mitchell	Measurement Tech		806-592-6325	806-215-0184
Landon Tadlock	Gas Gathering Operator	806-592-5005	806-592-6224	800-923-6149 (P) 806-215-0474 (C)
Todd King	Measurement Specialist	806-592-9467	806-592-7360	806-215-0183 (C)

WCRP

Name	Title	Residence Phone	Office Phone	Cellular or Phone patch or Pager
Jaime Perez	Central Plt. OTL	806-592-3192	806-592-3379	806-215-0281(C)
Doug Isbell	OP. Spec.	806-592-5159	806-592-7360	806-215-1495 (C)
Kenley Powell	Operations Specialist		806-592-4987	806-215-6943 (C)
Ronnie Popejoy	HES Tech	806-229-5381	806-592-7315	806-215-0527 (C)

CORPORATE SECURITY

Security Representative		
Richard Powers**	**Office**	**713-366-5897**
	Home	**N/A**
	Cell/Pager	**713-319-8988**
	Fax	**713-350-4804**
Alternate		
Frank Munoz	**Office**	**310-443-6015**
	Home	**N/A**
	Cell/pager	**310-498-1472**
	Fax	**713-350-4804**

****Must be notified to assist in providing site security for all major emergencies and spills or response for any bomb threats or terrorist activities.**

GREENWAY EMERGENCY OPERATION CENTER (EOC)

(713) 366-EXTENSION

713-366-1583	**Fax**
713-215-7000	**Receptionist**
713-366-5203	**EOC Coordinator**
713-366-5460	**HES Manager**
713-366-5431	**HR Manager**
713-366-5693	**Planning Manager**
713-215-7906	**Operations Manager**
713-366-4048	**Logistics Manager**

CONTRACTOR SUPPORT

ELECTRIC SERVICE COMPANIES

COMPANY NAME	PHONE NUMBER(S)
Bird Electric – Hobbs, NM	575-392-6174
K & S Electric - Hobbs, NM	575-393-3114 24 hour
Custom Submersible	575-397-0271 or 575-393-2146 24 hr

WATER SERVICE AND VACUUM TRUCKS

Key Energy Services – Hobbs , NM	575-397-4994 24 hour
Maclaskey Oilfield Services Hobbs, NM	575-393-1016 24 hour
Pate Trucking	575-397-6264 24 hour

ROUSTABOUT CREWS

Banta Oilfield Service – Hobbs, NM	575-393-3875 24 hour
CJR Contractors – Denver City, TX	806-592-2558 24 hour or 592-2232
RWI Construction Inc – Hobbs, NM	575-393-5305 24 hour

DIRT WORK EQUIPMENT

Banta Oilfield Service – Hobbs, NM	575-393-3875 24 hour
Sweatt Construction Co. – Hobbs, NM	575-397-4541 24 hour
B & H Construction – Eunice, NM	575-394-2588 24 Hour

WELDERS

Custom Welding - Hobbs, NM	575-393-5904 24 hour
JPN Service Co – Denver City, TX	806-592-8858 806-215-1060 Neil – 24 hour
RWI Construction Inc – Hobbs, NM	575-393-5305 24 hour

SAFETY EQUIPMENT

Total Safety – Hobbs, NM	575-392-2973 24 hour
Indian Fire and Safety – Hobbs, NM	575-393-3093 24 hour

CO2 SUPPLY

Trinity Pipeline	432-297-1004 24 hour
Lan Briley	432-661-0162
Billy Trull	432-661-1412

OUTSIDE PRODUCING COMPANIES

Amerada Hess	**Office Phone**	**575-393-2144 / 2145**
Apache Corp	**Office Phone** **Emergency Number** **Answering Service**	**575-394-2743** **1-888-561-5516** **1-888-257-6840**
Bruton, Ralph	**Business Phone**	**575-390-0366**
Brothers	**24 hours**	**575-369-9135**
Chevron	**Office Phone**	**575-393-4121**
CHI Operating	**Emergency Number** **Midland, Texas**	**575-748-1691 24 hour** **432-685-5001**
Conoco/Phillips Pipeline	**Supply/Transportation** **EVLRP/CO2 Facility**	**800-332-9449** **575-397-5578**
DCP Midstream	**Office Phone** **After Hours**	**575-397-5500** **800-847-6427**
Duke	**Office Phone** **After Hours**	**575-397-5600** **575-393-4165**
Dynegy	**Office** **Randy Duncan** **Floyd Evans**	**575-393-2823** **575-631-7065** **575-631-7074**
Enterprise (NGL Line from RCF)	**Chaparral Pipeline Emergency Number**	**1-800-666-0125**
Equilon	**Office Phone** **After Hours**	**806-592-9402** **806-893-8611**
Intrepid Operating	**Emergency Number**	**432-699-4304**
Legacy Reserves	**Call for Emergency** **Jessie Garcia/Foreman**	 **432-853-3535**
Marathon	**Office Phone**	**575-393-7106 24 hour**
NNG (RCF Fuel Gas)	**Emergency Number**	**1-888-367-6671**
Saga Petroleum	**Office Phone** **Ronny Long** **Ronny Pryor**	**575-391-9291** **432-638-6476** **432-638-5826**
Texland Petroleum	**Office Phone** **Levelland Emergency** **After Hours (24 Hours)** **Johnny Tarin Operator** **Ronnie McCracken Foreman**	**575-397-7450** **806-894-4316** **432-894-1463** **432-894-1466**
Trinity Pipeline (CO2) Supply	**Emergency/office Number** **Jack Moody** **Billy Trull**	**432-297-1004** **432-661-0162** **432-661-1412**
Zia Natural Gas	**Fuel Gas (NCTB/NIB)**	**575-392-4277**