

DRAFT
SAFE WORK PLAN

NORTH HOBBS UNIT

CO2 PROJECT

BEFORE THE
OIL CONSERVATION DIVISION
Case No. 12722 Exhibit No. 18
Submitted By:
Occidental Permian Ltd.
Hearing Date: September 6, 2001

There will be several Contract Companies working on the North Hobbs CO2 Project during the construction phase.

The Contract Crews will be reporting to three (3) Construction Supervisors: _____, _____, _____. These three (3) Construction Supervisors will report to Occidental Construction Supervisor Jimmy Williams, who is in charge of the overall construction effort for the project.

_____, _____, and their crews will lay the well injection lines and all other pipelines. _____ and his crew will build production satellites and make modifications to the Central Tank Battery facilities.

INFORMATION SHARING:

The Occidental Construction Supervisor or his designate will obtain a Progress Report in the afternoon from each of the Construction Supervisors. The following morning, he or his designate will attend the morning meeting with the Hobbs CO2 Project Team and report the day's expected construction activities. The Project Team will inform the Construction Supervisor or his designate of any production activities planned for that day to take place in areas (if any) where Construction Crews are working. The Construction Supervisor or his designate will then notify the Construction Supervisors of these production activities, who in turn will notify the affected Construction Crews.

COMMUNICATIONS:

The following personnel will have communications for daily use and for emergency purposes:

- | | | |
|--------------------------------|--------------------------------|------------------------|
| (1) Jimmy Williams | Oxy Construction Supervisor | hand held & mobile (1) |
| (2) | Construction Supervisor | hand held & mobile (2) |
| (3) | Construction Supervisor | mobile (5) |
| (4) Tommy Wright | Oxy Construction HES Tech. | Mobile (3) |
| (5) Steve Bishop | Oxy HES Tech North Hobbs Unit | mobile (4) |
| (6) | Oxy Contract Employee | mobile (8) |
| (7) Holly Peden | Office Communication | base |
| (8) | Contract Electrical Supervisor | mobile (10) |
| (9) | Contract Company Supervisor | mobile (9) |
| (10) Heavy Equipment Operators | | two way |

TAILGATE/TOOLBOX SAFETY MEETINGS:

Tailgate/Toolbox Safety Meetings will be conducted each morning before the construction work starts for that day. The purpose of these meetings is to openly discuss the work activities that will occur that day; notifying each craft member how they are expected to safely integrate their work with others in the area; as well as identifying the hazards represented by that type of work; and the steps to be taken to manage the hazards while doing that day's work. Some types of work require additional planning and documentation (Safe Work Systems include Hot Work, Permit Required Confined Space Entry, Electrical; Lock/Tag/Try and Excavation & Trenching). All personnel on location will sign the Tailgate Safety Meeting form. The Construction Supervisor, his crews, and the Construction HES Tech will attend the meetings. If anyone not associated with the job enters the location, they will be required to read and sign the Tailgate Safety Meeting form prior to entry. If the job scope changes, the job will be shut down, the crew will notify the Construction Supervisor of the changes and another pre-job safety meeting will be conducted. All Tailgate Safety Meeting forms will be on file in the Oxy Construction Supervisor's office.

NEAR MISSES:

Near Misses will be shared with all crews each morning during the Tailgate Safety Meetings. This includes any and all unsafe conditions or behaviors that are identified. The Oxy Construction Forman, Construction Supervisor, and the HES Tech will investigate all Significant Near Misses to determine the root cause and will communicate findings to all pertinent parties. All Near Miss forms will be on file in the Oxy Construction Supervisor's Office for a period of up to one year.

EXCAVATION:

All personnel whose job duties involve Excavation or Ditching, will be trained in the excavation procedures. An OSHA defined "Competent Person" will be on site at all excavation and ditching sites greater than 4 feet deep. If personnel are required to enter the excavation or ditch, a confined space permit will be required if the ditch is 4 feet deep or deeper. All bell-holes will be sloped or shored if over 4 feet deep and will be have egress at both ends of the bell-hole. This egress may require sloping, ladders, etc., to help the personnel out of the ditch in an emergency. Barrier material will be used around all bell-holes to protect livestock and personnel from accidentally falling into the bell-hole. The Competent Person will inspect the excavation each day and will issue the Excavation permit before the job starts for that day. All excavation must comply with local One-Call rules (compliance can be documented on Oxy forms). All Excavation forms will be held on file in the Oxy Construction Forman's Office for a period of up to one year.

CONFINED SPACE ENTRY:

A **Confined Space** is defined as a space large enough and so configured that an employee can bodily enter and perform assigned work; and has limited or restricted means for entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, bell holes and pits or spaces that may have limited means of entry); and is not designed for continuous employee occupancy. These spaces will be tested for Hydrogen Sulfide (H₂S) concentration, Lower Explosive Limits (LEL), and Oxygen (O₂) content, before entrance is allowed. Bell-holes that have only new lines and no other lines will be considered non-permitted confined spaces and will not require a permit. All personnel working in a confined space will be required to have training in confined space entry procedures. The Competent Person will be required to have training in Emergency Rescue Procedures. If the work is defined as a Permit Required Confined Space Entry, a rescue plan must be onsite, and the equipment to conduct the rescue may be required to be onsite as well. All Confined Space Permits will be held on file in the Oxy Construction Supervisor's Office for a period of up to one year.

HOT WORK:

Hot Work is any work that may introduce any source of ignition where flammable vapors may be present or will generate sufficient heat to ignite combustible and/or flammable materials and these materials will support combustion once ignited.

Examples of potential ignition sources found in typical exploration and production construction operations where permits may be required are: welding and cutting, torches and other open flames, burning, hot forging and hot riveting, hot tapping, combustion engines, portable electric tools (that are not explosion proof or intrinsically safe), grinding, chipping, drilling, soldering, sandblasting (static charges), thawing, freeing seized bearing, hot plates, portable lighting, portable heaters or steamers, opening an energized electrical junction box, use of any electrical device or instruments that are not explosion proof or intrinsically safe or opening any intrinsically or explosion proof enclosure within a hazardous area. Vehicles and/or other types of equipment entering a National Electric Code (NEC) Class I/Division 1 or 2 areas.

A Hot Work Permit will be required when doing Hot Work within 150 feet of a flammable source. After the atmosphere has been tested for H₂S, LEL, and Oxygen content, the HES Tech will issue a Hot Work Permit. All Hot Work Permits will be held on file in the Oxy Construction Supervisor's office for a period of up to one year.

FIRE FIGHTING:

Oxy Permian team members may extinguish incipient or first stage fires and perform or assist in rescue operations. The responding fire department will be given primacy when they have received a call from an Oxy Permian representative requesting assistance in controlling a fire on any Oxy Permian property.

LOCK-OUT, TAG-OUT, TRY:

During Construction of this project, only Oxy “Affected” employees will perform Lock/Tag/Try procedures on Oxy equipment. If the need arises for a piece of Oxy Equipment to be shut-down, a member of the crew will notify the Construction Supervisor of the need, in turn the Construction Supervisor will notify the Oxy Employee over that work area, to perform the Lock-Out Tag-Out procedure. The Contract company is responsible for implementing their Lock/Tag/Try procedure when working on their equipment. All Lock/Tag/Try procedures must address at least the following types of potential stored energy: Kinetic (gravity); Chemical; Thermal; Hydraulic; Pneumatic; and Electrical.

HAND TOOLS:

- All hand tools shall be operated with the manufacturer’s guards in place, including Grinders and Saws.
- All Electrical Cords shall have a GFCI in Place.
- Electrical cords used for power should not cause tripping hazards.
- Only Doubled Insulated Power tools shall be used.
- All Grinder Disks shall be rated for the same RPM rating as the grinder.
- Chisels should be inspected for potential metal fragments prior to use.
- Hammer handles should be in good repair.
- Pry bars are to be used to position flanges and equipment, never insert fingers to align holes during installation.

OTHER HAZARDS:

Hazards that the crews may be exposed to each day are to be discussed each morning during the Tailgate Safety Meetings. The following Safety Orientation will be presented to all Contractor personnel involved in implementation of the CO2 project.

HOBBS RMT REQUIREMENTS FOR PPE

Hardhats:

- Hats must meet ANSI Z89.1-1997, and
- Must be worn whenever in the field

Safety Glasses:

- Eyewear must meet ANSI Z87.1-1989, and
- Must be worn whenever in the field
- Side Shields are required
- Goggles and Face shields are required when grinding or mixing chemicals

Work Boots:

- Footwear must meet ANSI Z47.1, and
- Steel toe boots are required whenever in the field
- Boots rated for electrical work should be worn when doing that work

H2S Monitor:

- Each contractor employee must wear a monitor whenever in the field
- Monitor must be calibrated at all times, to alarm at 10ppm

Appropriate Clothing:

- Shirts with sleeves are required
- Appropriate clothes for the working conditions are required

H2S:

Present at all locations

Maximum Potential Radius of Exposure at 100 parts per million(ROE₁₀₀):

1219 feet @ NHU Satellite 32E

1186 feet @ NHU Satellite 32E

Fall Protection:

Appropriate fall protection shall be provided when workers could fall more than 6 continuous feet.

Driving:

Obey all posted traffic signs (speed, stop, etc.)

Watch for others and be aware of blind spots

Adhere to all safety signs

All vehicles will be subject to search while on Occidental property

Snakes:

Poisonous snakes are present

Watch for snakes and remind each other daily

Communications:

Notify Oxy personnel or immediate supervisor of any unsafe conditions and near misses immediately.

Cranes/Hoists/Forklifts:

No one shall be allowed under a lifted load; a tag line shall be used to guide all suspended, lifted loads. Crane and Forklift operators must be trained according to federal guidelines.

Emergency CO2 Project Phone List

NORTH HOBBS C02 PROJECT

EMERGENCY PHONE LIST

Name	Title	Residence Phone	Office Phone	Cellular or Pager
Gary Bullock	RMT Leader		505-397-8203	505-390-9144(C) 877-339-1954-1004 (P)
Jerry Brinker	Project Engineer		281-552-1273	713-560-8042(C)
Mark Coalmer	Project Engineer		281-552-1273	
Steve Bishop	HES Tech.		505-397-8251	505-390-4784 (C) 877-339-1954-1118 (P)
Roy Escobedo	HES Coord.		806-592-6481	806-893-2691 (C) 1-888-221-3493(P)
Jimmy Williams	Construction Supervisor			806-638-1948(C)
	Construction Supervisor			
	Contractor Supervisor			
	Contract Const. Superintendent			
	Contractor Electrical Super.			
	Project Superintendent			
	Fiberglass and Pipe Testing			
	Right of way Ditching Operations.			
CAPROCK ANSWERING SERVICE	Occidental Contract Answering Svc.		505-397-8255	
Lea Co Hospital	5419 Lovington Highway		505-492-5000	
Ambulance			911 or 505-397-9308	