

Hydrogen Sulfide Drilling Operations Plan**Mewbourne Oil Company**

Querecho "22" Federal Com #1H

245' FSL & 815' FEL

Sec 22-T18S-R32E

Lea County, New Mexico

HOBBS OCD**JUL 18 2011****RECEIVED****1. General Requirements**

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H₂S were found. MOC will have on location and working all H₂S safety equipment before the Yates formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a known hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

1. Well Control Equipment
 - A. Choke manifold with minimum of one adjustable choke.
 - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
 - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H₂S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H₂S are detected the well will be shut in and a rotating head, mud/gas separator, and flare line with igniter will be installed.

3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. Visual Warning Systems

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. **Mud Program**

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. **Metallurgy**

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. **Communications**

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. **Well Testing**

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. **Emergency Phone Numbers**

Lea County Sheriff's Office	911 or 575-396-3611
Ambulance Service	911 or 575-396-2359
Maljamar Fire Dept	911 or 575-676-4100
Lovington Fire Dept.	911 or 575-396-2359
Nor-Lea Hospital – Lovington	575-396-6611

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

District Manager	Micky Young	575-390-0999
Drilling Superintendent	Frosty Lathan	575-390-4103
Drilling Foreman	Wesley Noseff	575-441-0729
Engineer	Charles Martin	575-441-2081

MEWBOURNE OIL COMPANY
P O BOX 7698
TYLER TX 75711 7698

No. 220953

(903)561-2900

INVOICE DATE	INVOICE NUMBER	DESCRIPTION	VOUCHER	AMOUNT
03/14/11	APD.FILING.FEE-3/11A	APD FILING FEE FOR QUERECHO 22 FEDERAL COM #1H 245' FSL & 815' FEL, SEC 22, T18S, R32E, LEA CO., NM	1103220953	6500.00
BUREAU OF LAND MANAGEMENT			TOTAL	6,500.00

THIS CHECK IS VOID WITHOUT A BLUE AND GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK. HOLD AT AN ANGLE TO VIEW.

Frost National Bank
San Antonio, Texas

MEWBOURNE OIL COMPANY
P O BOX 7698
TYLER TX 75711 7698

No. 220953

30-9/1140

*****6,500*DOLLARS AND*****0*CENTS

PAY TO THE
ORDER OF

BUREAU OF LAND MANAGEMENT
620 EAST GREENE STREET
CARLSBAD, NM 88220

DATE	PAY THIS AMOUNT
3/14/11	*****6,500.00

Joe Buckley

BORDER CONTAINS MICROPRINTING

⑈ 220953⑈ ⑆ 114000093⑆ 010511722⑈