

 **COPY**

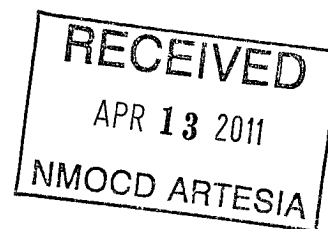
**Unit Petroleum Company
7130 South Lewis, Suite 1000
Tulsa, Oklahoma 74136**

30-015-38993

**HYDROGEN SULFIDE (H₂S) Contingency
Plan**

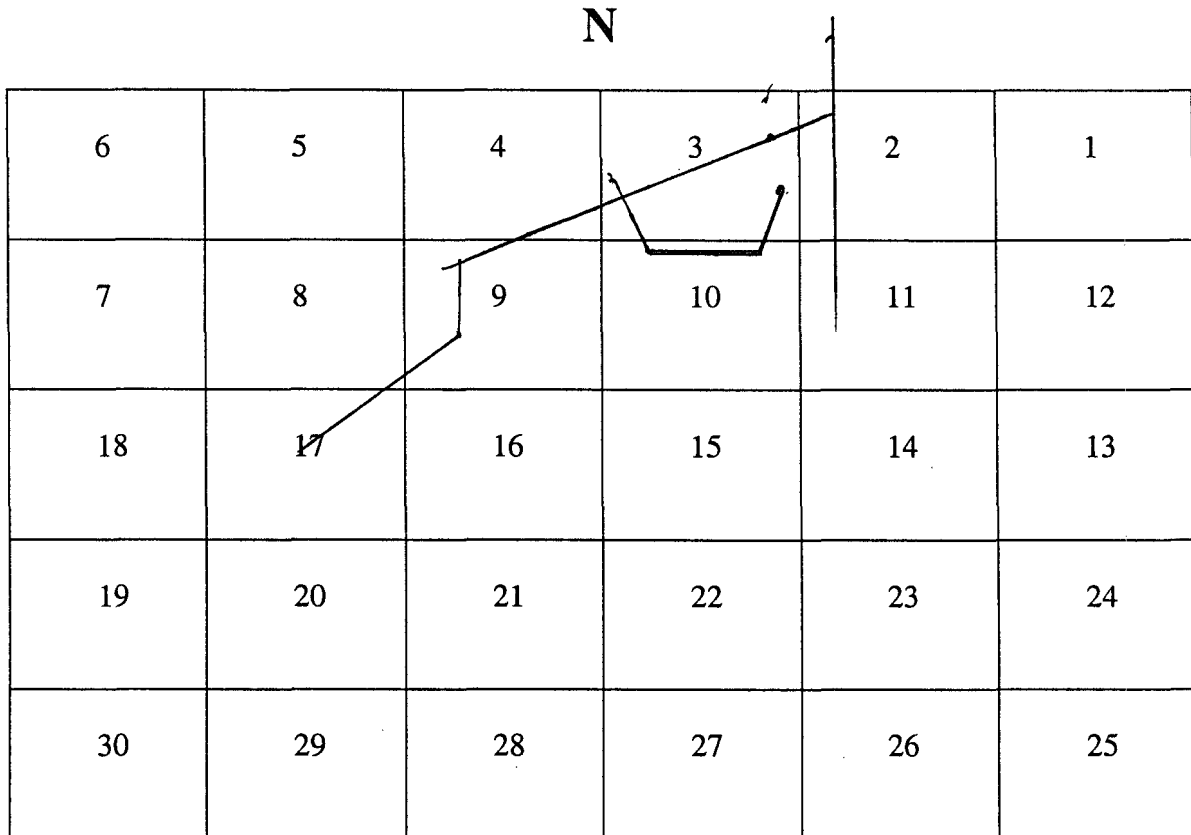
For

**HB3 Federal # 4H
330' FSL – 330' FEL
Section 3, T24S-R29E
Eddy County, New Mexico**



HB3 Federal # 4

This is an open drilling site, H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Escape:

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated North on lease road to collector road. Crews should block collector road and lease road to location so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Emergency Procedures:

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responders(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H₂S, measures for protection against the gas, equipment used for protection and emergency response. Additionally responders must be equipped with H₂S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source:

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂:

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Unit Petroleum Company personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location or release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Unit Petroleum Company response must be in coordination with the State of New Mexico's Hazardous Materials Emergency Response Plan. (HMER)

Unit Petroleum Company Call List:

Tulsa District:

District Engineer	Brent A. Keys	(918) 477-4510
Area Foreman	Harvey Wetzel	(432) 664-3217
Safety Director	Skip Wedel	(918) 477-4574

Agency Call List: Lea County Area Code (575)

Hobbs:

State Police.....	575-392-5588
City Police.....	575-397-9265
Sheriff's Office.....	575-393-2515
Ambulance.....	911
Fire Department.....	575-397-9308
LEPC (Local Emergency Planning Committee).....	575-393-2970
NMOCD.....	575-393-6161
US Bureau of Land Management.....	575-393-3612

Carlsbad: Eddy County Area Code (575)

State Police.....	575-885-3137
City Police.....	575-885-2111
Sheriff's Office.....	575-887-7551
Ambulance.....	911
Fire Department.....	575-885-2111
LEPC (Local Emergency Planning Committee).....	575-887-3798
US Bureau of Land Management.....	575-887-6544
New Mexico Emergency Response Commission (Santa Fe).....	575-476-9600
24 HR.....	575-827-9126
National Emergency Response Center (Washington, DC).....	(800) 424-8802

Emergency Services:

Boots & Coots IWC.....	1-800-256-9688 or (281) 931-8884
Cudd Pressure Control.....	(915) 699-0139 or (915) 563-3356
Halliburton.....	(505) 746-2757
B.J. Services.....	(505) 746-3569

Give GPS Position:

Flight For Life – Lubbock, Texas.....	(806) 743-9911
Aerocare – Lubbock, Texas.....	(806) 747-8923
Med Flight Air Ambulance – Albuquerque, NM.....	(505) 842-4433
Lifeguard Air Med Svc., Albuquerque, NM.....	(505) 272-3115