

Gruy Petroleum

Hydrogen Sulfide (H₂S) Contingency Plan

For

**Winningham #8 (location)
1160 FSL & 1610 FEL (0)
Sec 19, T-25S, R-37E
Lea County NM**



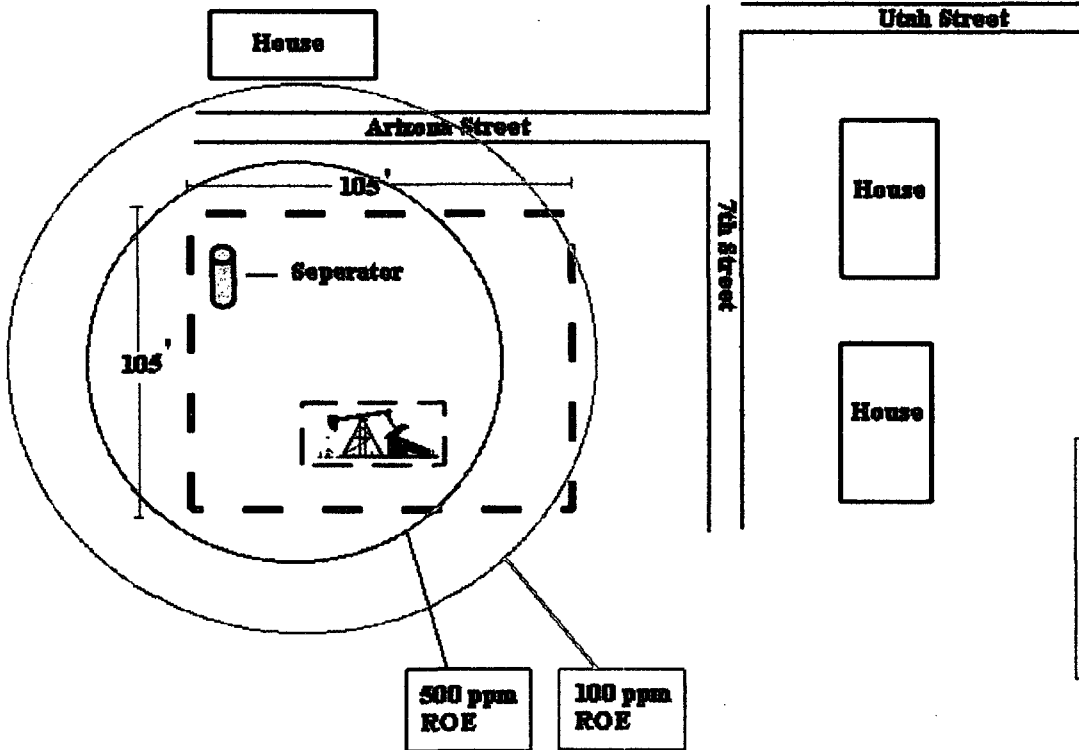
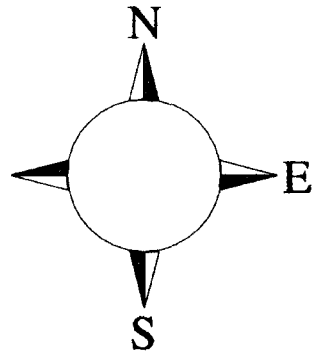
And

**Winningham #9 (Location)
660 FNL & 1980 FEL (B)
Sec 30, T-25S, R-37E
Jal, Lea County NM**

The Contingency plans are combined for these two locations because of their close proximity and common management.

Winningham #8

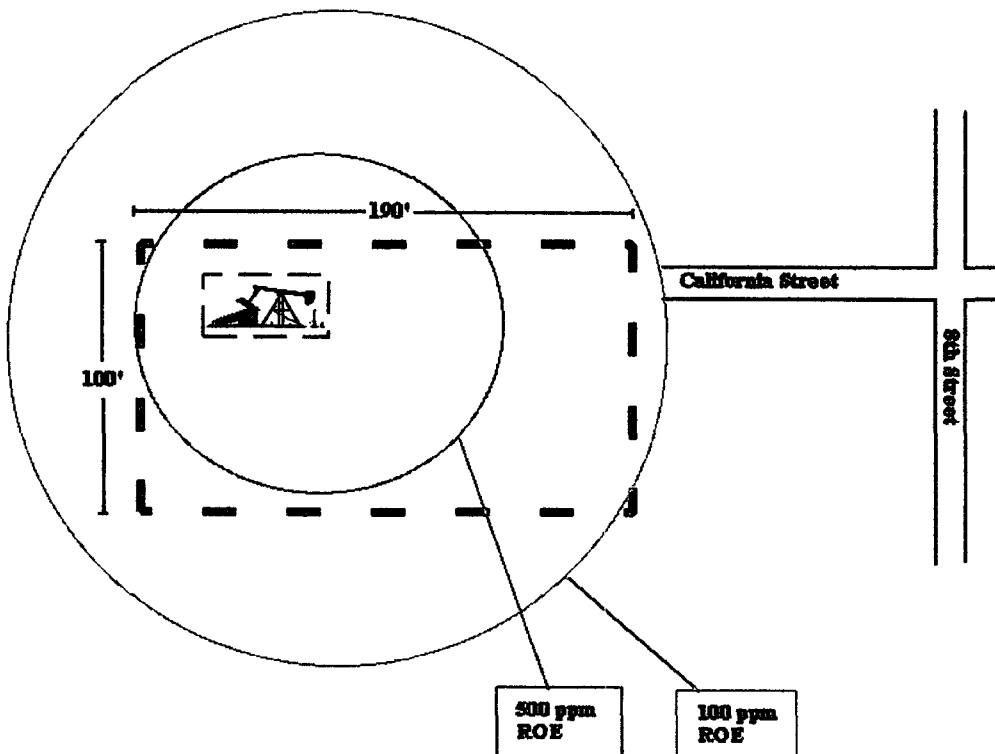
This location is fenced, has windsock and warning signs



100 ppm ROE = 123'
500 ppm ROE = 56'
H2S Concentration =
23,000 ppm
60/mcf

Winningham #9

This location is fenced, has windsock and warning signs.



100 ppm ROE = 181'
500 ppm ROE = 83'
H2S Concentration =
18,000 ppm
142/mcf

Emergency Procedures

In the case of a release of gas containing H₂S, the first responder must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder must evacuate the any public places encompassed by the 100 ppm ROE. First responders 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 well 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 ⁴	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Gruy Petroleum 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. Agencies will ask for information such as type and volume of release, wind direction, location of 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. Gruy Petroleum response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Company Call List

Lea County (505)

Danny Emerson.....390-3212
Rusty Crawford.....631-2656
Eunice Office.....394-0613

Agency Call List

Lea County (505)

State Police (District 3)392-5588
Jal City Police.....395-2121
Sheriff's Office.....395-2121
Ambulance911
Fire Department.....395-2221
LEPC (Local Emergency Planning Committee)393-2870
NMOCD393-6161
US Bureau of Land Management.....393-3612

Other

Boots & Coots IWC1-800-256-9688 or (281) 931-8884
Cudd Pressure Control.....(915) 699-0139 or (915) 563-3356
Halliburton(505) 746-2757
B. J. Services.....(505) 746-3569

Flight For Life -4000 24th St, Lubbock, TX(806) 743-9911
Aerocare -Rr 3 Box 49f, Lubbock, TX(806) 747-8923
Med Flight Air Amb 2301 Yale Blvd SE #D3, Albuq, NM(505) 842-4433
S B Air Med Svc 2505 Clark Carr Loop SE, Albuq, NM(505) 842-4949

Prepared in conjunction with
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