

30-015-32938

**Purvis Operating Co.
P O Box 11006
Midland, TX 79702-8006**

Hydrogen Sulfide (H₂S) Contingency Plan

for

**Esperanza 22 Com State #1
1775 ft. FSL, 660 ft. FEL
Section 22, T-21S, R-27E
Eddy County, NM**

Emergency Procedures

There are no known formations that produce H_2S in this area and no H_2S is expected to be released into the atmosphere. However, should loss of circulation be encountered below the intermediate string, H_2S monitors and air packs will be installed immediately. There are no known public housing within 1 1/2 miles of the location. The nearest public highway is the Carlsbad Bypass about 0.8 miles to the west.

In the case of a release of gas containing H_2S , the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally, the first responder(s) must evacuate the 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 H_2S , measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H_2S 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 (802). 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 H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = 1	10 ppm ⁴	100 ppm/hr	600 pip
Sulfur Dioxide	SO_2	2.21 Air = 1	2 pip	N/A	1000 ppm

Contacting Authorities

Purvis Operating Co. 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 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. Purvis Operating Co.'s response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan.' (HMER)

COMPANY CALL LIST

<u>Midland, Texas (432)</u>	<u>Office</u>	<u>Cell Phone</u>	<u>Home</u>
Donnie Brown	682-7346	638-3441	699-7855
James Purvis	682-7346	638-6770	697-3206
Mark Dehlinger		528-6751	686-7929

AGENCY CALL LIST**EDDY COUNTY (505)****CARLSBAD**

State Police	885-3137
City Police	885-2111
Sheriffs Office	887-7551
Ambulance	911
Fire Department	885-2111
LEPC (Local Emergency Planning Committee)	887-3798
NMOCD	748-1283

OTHER

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
Flight For Life - 4000 24 th St., Lubbock, TX	(806) 743-9911
Aerocare - RR3 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) 582-4949

**Eddy County, NM**