

30-025-41448

**Endurance Resources LLC
15455 Dallas Parkway, Suite 1050
Addison, TX 75001**

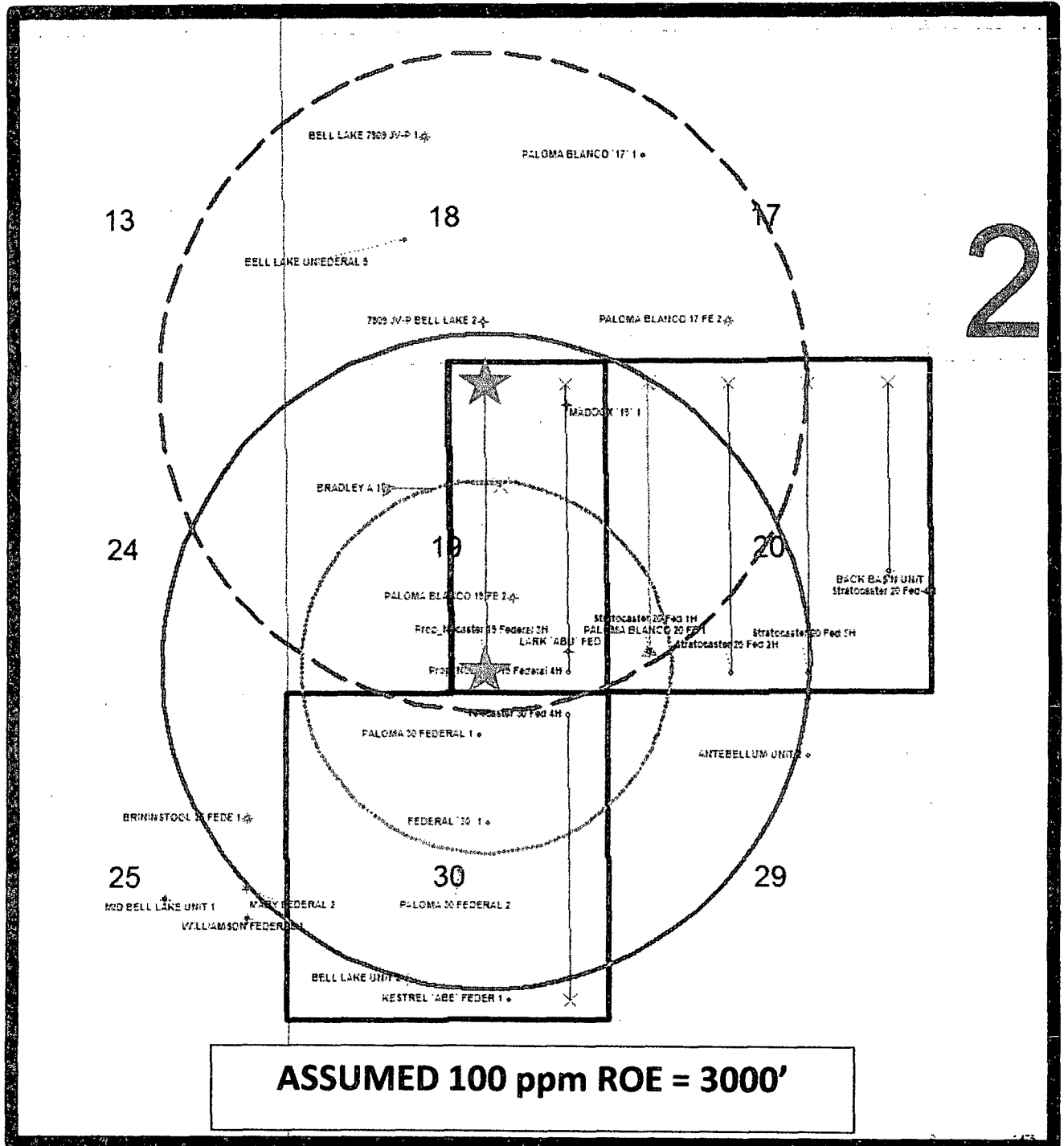
**Hydrogen Sulfide (H₂S) Contingency Plan
For
Nocaster "19" Fed #3H**

**Sec 19-T23S-R34E
330' FSL & 1980' FEL
Lat=32.2837632'N (NAD83)
Long=103.5070291'W
Lea Co NM**

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OCT 15 2013

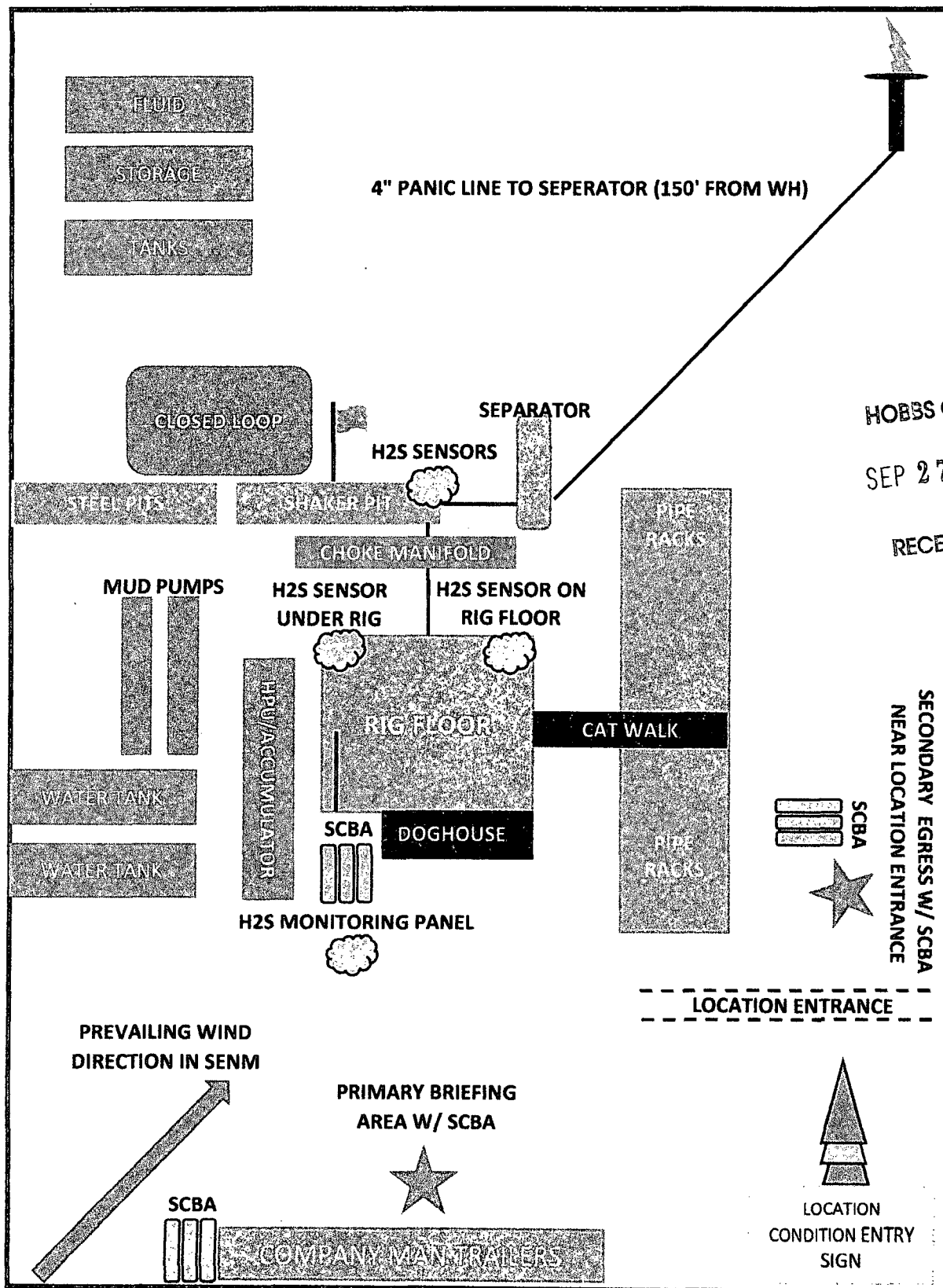
Nocaster 19 Federal 3H



- ★ Surface Location
- ★ Bottom Hole Location
- H2S 3000' Radius
- Surface 5280' Radius
- - - Bottom Hole 5280' Radius

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RIG LOCATION LAYOUT & H2S SAFETY EQUIPMENT LOCATION
WELL PADS 420' X 350'
NOTE: DRAWING NOT TO SCALE





Escape:

In the event of an emergency, crews shall escape upwind of any H₂S gas that is released. Escape routes can be facilitated from the location entrance road, then due west on lease road. Depending on wind direction, the Stratocaster 20-1H or the radio tower will be the mustard point. Crews should then block entrance to location from the lease road so as not to allow anyone traversing into a hazardous area. This blockade should be at a safe distance outside of the ROE. ***There are no homes or buildings in or near the ROE.***

Assumed 100ppm ROE=3000'

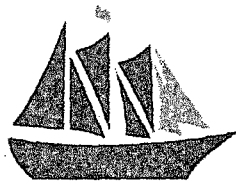
100ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures:

In the event 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
- Evacuate any public places encompassed by the 100 ppm ROE
- Be equipped with H₂S monitors and air packs in order to control the release
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation
- Contact operator and/or local officials to aid in operation. **See list of phone numbers attached.**
- Have received training in the 1) detection of H₂S, 2) measures for protection against the gas 3) equipment used for protection & emergency response.

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Ignition of Gas Source

SO₂ or Sulfur Dioxide must be taken in precaution should the need to ignite the H₂S gas stream if well control is lost against this gas. 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. Wind direction identification whenever there is ignition of H₂S must be taken into consideration as well.

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

Endurance Resources personnel must liaison with local & state agencies to ensure a proper response to a major release. Additionally, the NMOCD must be notified of the release as soon as possible but no later than 4hrs. Agencies will ask for information such as type & volume of release, wind direction, location of release, ect. Be prepared with all information available. The following call list of essential & potential responders has been prepared for use during a release. Endurance Resources' company response must be in coordination with the HMER.

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HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

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I. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following area prior to commencing drilling operations on this well:

1. The hazards & characteristics of hydrogen sulfide (H₂S)
2. The proper use & maintenance of PPE & SCBA systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, & prevailing winds (seasonal).
4. The proper techniques for first aid & rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action & shut-in procedures when drilling or reworking a well, BOP & well control procedures.
3. The contents & requirements of the H₂S Drilling Operations Plan & Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500ft) and weekly H₂S & well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. H₂S Safety Equipment & Systems

Note: All H₂S safety equipment will be installed, tested, & operational when drilling reaches a depth of 500' above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:



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- Flare Line
- Choke manifold with remotely operated choke
- Blind rams & pipe rams to accommodate all pipe sizes with properly sized closing unit.
- Auxiliary equipment to include: annular preventer, mud-gas separator, & rotating head.

B. Protective equipment for essential personnel:

- 30-minute SCBA units located in the dog house & at briefing areas. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

C. H2S detection and monitoring equipment:

- (2) Portable H2S monitors positioned on location for best coverage & response. These units have warning lights & audible sirens when H2S levels of 20ppm are reached. These units are also capable of detecting SO₂, which is a byproduct of burning H2S.

D. Visual warning systems:

- Wind direction indicators: will be shown on well site diagram.
- Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size so that it is legible at a reasonable distance from the immediate location. Bilingual signs will also be used, when appropriate.

E. Mud program:

- The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will help minimize hazards when penetrating H2S bearing zones.

F. Metallurgy:

- All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, and valves shall be suitable for H2S service.



G. Communication:

- Company vehicles equipped with cellular phones, as well as a satellite phone in the company man's trailer.

ENDURANCE RESOURCES LLC HAS CONDUCTED A REVIEW TO DETERMINE IF AN H2S CONTINGENCY PLAN IS REQUIRED FOR THE ABOVE MENTIONED WELL. WE WERE ABLE TO CONDUCT THAT ANY POTENTIAL HAZARDOUS VOLUME WOULD BE MINIMAL (IF ANY PRESENT) FROM SURFACE TO TD.

EMERGENCY CALL LIST

Endurance Operations Office: (575) 308.0722

Kale Jackson-Sr Completions Engineer: (575) 914.3355

Manny Sirgo- VP Operations: (432) 413.0085

Randall Harris- VP Geology: (575) 365.7747

Don Ritter- CEO: (469) 556.3757

EMERGENCY RESPONSE NUMBERS

HOBBS:

State Police: 575.392.5588

City Police: 575.397.9265

Sherriff's Office: 575.393.2515

Ambulance: 911

Fire Department: 575.397.9308

LEPC: 575.393.2870

NMOCD: 575.393.6161

BLM: 575.393.3612

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CARLSBAD:

State Police: 575.885.3137

City Police: 575.885.2111

Sherriff's Office: 575.887.7551

Ambulance: 911

Fire Department: 575.885.2111

LEPC: 575.887.3798

BLM: 575.361.2822

EMERGENCY SERVICES:

Boots & Coots: 1.800.256.9688

Cudd Pressure Control: 915.699.0139

Halliburton: 575.746.2757

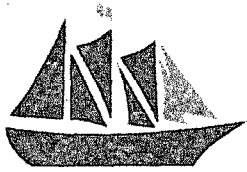
Baker Hughes: 575.746.3569

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PROPOSED INTERIM SITE RECLAMATION



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NOCASTER 19 FED 3H

330' FSL & 1980' FEL

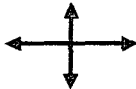
SEC 19-23S-34E

LEA CO, NM

N



W



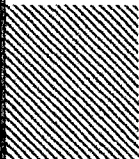
L

A=L X W

POWER LINE & FLOWLINE



PROPOSED
RECLAMATION
AREA



420'

220' X 75'



100' X 290'

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ROAD IN/OUT

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420'

350'