

July 16, 2010

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Bureau of Land Management 620 E. Greene Carlsbad, NM 88220 575-887-6544 30-015-38463

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NMOCD ARTESIA

#### Dear Sirs:

XTO Energy Inc. does not anticipate encountering H2S while drilling the Nash #49H located in Section 13, T23S, R29E, in Eddy County, New Mexico. As a precaution, I have attached an H2S contingency plan along with a gas analysis of our well stream. If you need anything further, please contact me at the telephone number or email listed above.

Thank you,

Chip Amrock Sr. Drilling Engineer



# **HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN**

## **Assumed 100 ppm ROE = 3000'**

100 ppm H2S concentration shall trigger activation of this plan.

### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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
  - o Detection of H2S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency 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 (SO<sub>2</sub>). 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 this is an ignition of the gas.

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

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

### **Contacting Authorities**

XTO Energy Inc's 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 including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

## **EUNICE OFFICE – EDDY & LEA COUNTIES**

EMSU @ Oil Center, NM, 8/10ths mile west of Hwy 8 on Hwy 175 Eunice, NM	575-394-2089
Buckeye Office @ Lea County: From Hobbs, NM take Hwy 62/180 West Approx. 10 miles to SH 529, turn NW on SH 529 for 3 miles, turn North On Hwy 238, proceed North approx 8 miles to Buckeye field office (1/4 mile North of Buckeye store)	575-396-0542
·	373-390-0342
XTO ENERGY INC PERSONNEL:	
Boogie Armes, Sr. Drilling Superintendent Bob Chance, Drilling Superintendent Chip Amrock, Sr. Drilling Engineer Jeff Raines, Construction Foreman Dudley McMinn, EH & S Manager Rick Wilson, Production Foreman Jerry Parker, Buckeye Production Foreman David Paschal, Eunice Monument Production Foreman Gene Hudson, Maintenance Foreman Guy Haykus, Production Superintendent	432-556-7403 432-296-3926 432-638-8372 432-557-3159 432-557-7976 575-441-1147 575-441-1628 575-390-7167 575-441-1634 575-634-5677
SHERIFF DEPARTMENTS:	
Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS:	
Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS:	
Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS:	
Bureau of Land Management New Mexico Oil Conservation Division Mosaic Potash - Carlsbad	575-393-3612 575-393-6161 575-887-2871
CONTRACTORS:	
ABC Rental – Light Towers Bulldog Services – Trucking/Forklift Champion – Chemical Indian Fire & Safety Key – Dirt Contractor Key Tools – Light Towers Sweatt – Dirt Contractor RWI – Contract Gang	575-394-3155 575-391-8543 575-393-7726 575-393-3093 575-393-3180 575-393-2415 575-397-4541 575-393-5305

## **XTO ENERGY INC**

## **H2S BATTERY SURVEY**

LOCATION	RESULTS	COMMENTS	TYPE GAS
Bar 4 Fed #1	0	Oil & Water tanks	
Bridges State 514	0	Oil & Water tanks	
Bridges State 120	2100 ppm	Oil & Water tanks	Sour
Bridges State 126	10,000 ppm	Oil & Water tanks	Sour
Bridges State 12	16,000 ppm	Oil tanks	Sour
Bridges State 95	200 ppm	Oil tanks	Sour
Bridges State 14	4,200 ppm	Oil & Water tanks	Sour
Federal DM #1	180,000 ppm	Oil & Water tanks	Sour
Greenstar 22 #1	0	Oil & Water tanks	
Gulf 5 Federal #1	0	Oil & Water tanks	
NVA North Prod Wtr Station	300 ppm	Water tanks	Sour
NVAE	350 ppm	Oil & Water tanks	Sour
NVAU #204	600 ppm	Oil & Water tanks	Sour
NVAU #134	600 ppm	Oil & Water tanks	Sour
NVAU #120	200 ppm	Oil & Water tanks	Sour
NVAU #131	8,000 ppm	Oil & Water tanks	Sour
NVAU #203	100 ppm	Oil & Water tanks	Sour
NVA South Prod Wtr Station	9,000 ppm	Water tanks	Sour
NVAU #95	100 ppm	Oil tanks	Sour
Remuda Basin 24 #1	Ö	Oil & Water tanks	
Remuda Basin #19	0	Oil & Water tanks	-
Ross Draw 25 #1	0	Oil & Water tanks	
Yates #8	0	Oil & Water tanks	
Nash # 1, 6, 9, 13, 15, 19, 24, 33,34, 36, 38	0	Oil & Water tanks	· · · · · · · · · · · · · · · · · · ·
SDE #31	20	Oil & Water tanks	Sour
SDE #19	0	Oil & Water tanks	
SEMGSAU Battery #1	16,000 ppm	Oil & Water tanks	Sour
SEMGSAU Battery #2	8,000 ppm	Oil & Water tanks	Sour
Sprinkle B Federal #2	50 ppm	Oil & Water tanks	Sour
State N	200 ppm	Oil & Water tanks	
State XX	Ó	Oil & Water tanks	
State K	25 ppm	Oil & Water tanks	Sour
NM State BO	9,000 ppm	Oil & Water tanks	Sour
State M	0	Oil & Water tanks	
State Sec 27 SWD	2,200 ppm	Water tanks	Sour
State L & PP	0	Oil & Water tanks	
NM J State	100 ppm	Oil & Water tanks	Sour
Tex-Mack 5 State Comm	Ó	Oil & Water tanks	