Hydrogen Sulfide Drilling Operations Plan Double X 25 Federal No. 10H Cimarex Energy Co. Unit C, Section 25 T24S-R32E, Lea County, NM

HOBBS OCD

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- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.

2 H₂S Detection and Alarm Systems:

A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.

3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock at briefing area should be high enough to be visible.

4 Condition Flags and Signs:

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.

5 Well control equipment:

A. See exhibit "E"

6 Communication:

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drillstem Testing:

No DSTs or cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

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H₂S Contingency Plan Double X 25 Federal No. 10H Cimarex Energy Co. Unit C, Section 25 T24S-R32E, Lea County, NM

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.
- \star 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:
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - 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_2). 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.

Common Chemical Specific Threshold Hazardous Lethal Gravity Name Formula Limit Limit Concentration Hydrogen Sulfide H₂S 1.189 Air=1 10 ppm 100 ppm/hr 600 ppm Sulfur Dioxide SO₂ 2.21 Air=1 2 ppm N/A 1000 ppm

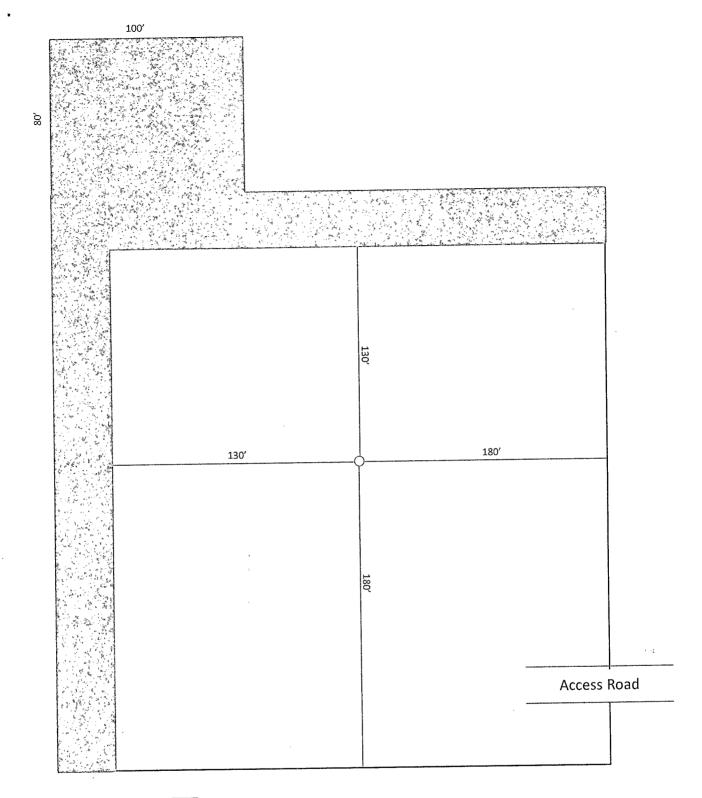
Characteristics of H₂S and SO₂

Contacting Authorities

Stata Production Company's personnel must liaise 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. Stata Production Company's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts Double X 25 Federal No. 10H Cimarex Energy Co. Unit A, Section 25 T24S-R32E, Lea County, NM

Cimarex Energy Co. of Cold	800-969-4789			
Co. Office and After-Hours				
Key Personnel				
Name	Title	Office		Mobile
Doug Park	Drilling Manager	432-620-1934		972-333-1407
Dee Smith	Drilling Super	432-620-1933		972-882-1010
Jim Evans	Drilling Super	432-620-1929		972-465-0564
Roy Shirley	Field Super			432-634-2136
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Ambulance		911		
State Police		575-746-2703		
City Police		575-746-2703	·	
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning Committee		575-746-2122		
New Mexico Oil Conservation Division		575-748-1283		
Carlsbad		011		
Ambulance		911		·····
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Plannir		575-887-6544		
US Bureau of Land Mana	agement	575-887-6544		
Santa Fe				
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600		
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs		505-827-9126		
New Mexico State Emergency Operations Center		505-476-9635		
National				
	ponse Center (Washington, D.C.)	800-424-8802		
Medical				
	h St · Lubback TX	806-743-9911		
Flight for Life - 4000 24th St.; Lubbock, TX Aerocare - R3, Box 49F; Lubbock, TX		806-747-8923		
Med Flight Air Amb - 23	505-842-4433			
	505-842-4949			
JE All Web Service - 250	5 Clark Carr Loop S.E.; Albuquerque, NM			
<u>Other</u>				
Boots & Coots IWC	•	800-256-9688	or	281-931-8884
Cudd Pressure Control	·	432-699-0139	or	432-563-3356
Halliburton		575-746-2757		
B.J. Services		575-746-3569	_	



<u>Exhibit "D-1"</u> Interim Reclamation Plat Double X 25 Federal 10H	N	0	Wellbore
Cimarex Energy Co.	\uparrow		
25-24S-32E		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Interim
SHL 330' FNL & 1980' FWL			Reclamation
BHL 330' FSL & 1980' FWL			
Lea County, NM		L <u></u>	