30-025-40476

Hydrogen Sulfide Drilling Operations Plan

Hallertau 4 Federal No. 7H

Cimarex Energy Co. of Colorado Unit B, Section 4 T26S-R32E; Lea County, NM

- 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.

HOBBS OCD

H₂S Contingency Plan
Hallertau 4 Federal No. 7H
Cimarex Energy Co. of Colorado
Unit B, Section 4
T26S-R32E; Lea County, NM

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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:
 - ♦ 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 (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

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Common	Chemical	Specific	Threshold	Hazardous	Lethal	
Name	Formula	Gravity	Limit	Limit	Concentration	
Hydrogen Sulfide	H₂S	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

Cimarex Energy Co. of Colorado'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. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts

Hallertau 4 Federal No. 7H

Cimarex Energy Co. of Colorado Unit B, Section 4 T26S-R32E; Lea County, NM

Company Office Cimarex Energy Co. of Colorado	800-969-4789			
Co. Office and After-Hours Me				
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
	3 8 CHILD 8 BOOK S \$1001 IS \$1000 IS \$1		9 IS 6000	6 EE 6 EE 8 EE EE
	0 4 sm 0 sm 6 sm 6 sm 6 sm 6 sm 8 sm 6 sm 6 sm 6			
<u>Artesia</u> 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 C	575-746-2122			
New Mexico Oil Conservation	575-748-1283			
<u>Carlsbad</u> 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 Planning C	575-887-6544			
US Bureau of Land Manager	575-887-6544	-		
Santa Fe		FOF 476 0600		
New Mexico Emergency Res	505-476-9600			
New Mexico Emergency Res	505-827-9126			
New Mexico State Emergen	cy Operations Center	505-476-9635		
<u>National</u>				
National Emergency Respon	800-424-8802			
 Medical				
Flight for Life - 4000 24th St	806-743-9911			
Aerocare - R3, Box 49F; Lub	806-747-8923			
	'ale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	lark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
Cudd Pressure Control Halliburton		575-746-2757		432-503-3350

