Hydrogen Sulfide Drilling Operations Plan

East Lusk 15 Federal Com #4H

Cimarex Energy Co. of Colorado UL: A, Sec. 15, 19S, 32E Lea Co, 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. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

2 H₂S Detection and Alarm Systems:

- A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the top doghouse.

3 Windsock and/or wind streamers:

- Α. Windsock at mudpit area should be high enough to be visible.
- В.

Windsock on the rig floor and / or top doghouse 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 H2S trained and certified personnel admitted to location.

5 Well control equipment:

A. See exhibit "E-1"

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 r 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.

H₂S Contingency Plan

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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.
- K 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

Please see attached International Chemical Safety Cards.

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).

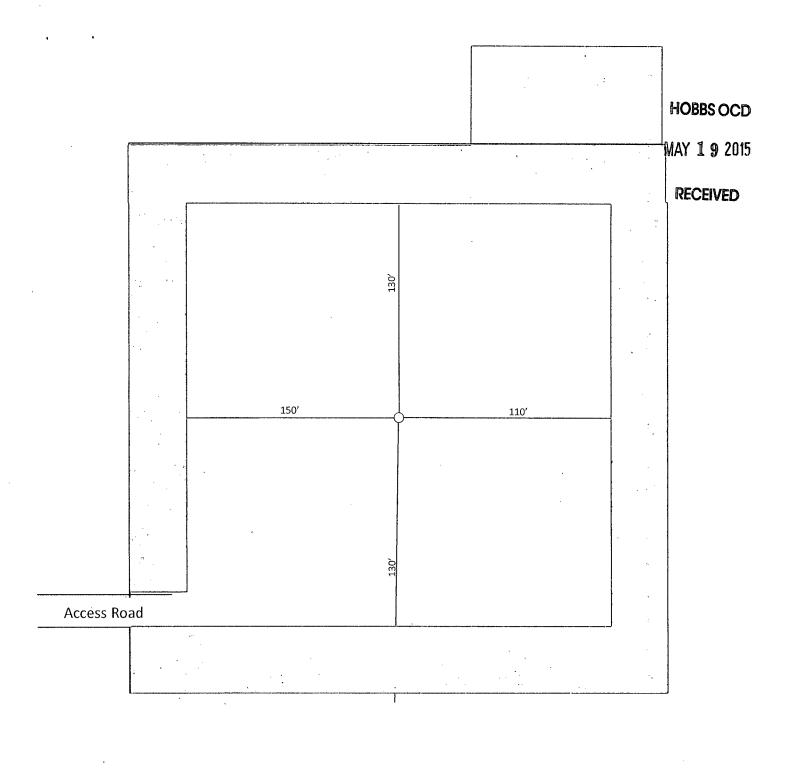
H₂S Contingency Plan Emergency Contacts

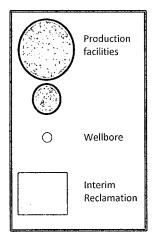
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Cimarex Energy Co. of Colorado UL: A, Sec. 15, 19S, 32E Lea Co, NM

Cimarex Energy Co. of Colorado		800-969-4789		
Co. Office and After-Hours Menu				
Vov. Damannol				
Key Personnel Name	Title	Office		Mobile
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485
Doug McQuitty Scott Lucas	Drilling Superintendent	432-620-1933		806-640-2605
Roy Shirley	Drilling Superintendent Construction Superintendent	432-620-1989		432-894-5572 432-634-2136
Roy Stiffley	construction superintendent	1-11		432-034-2130
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Ambulance		911		78311617
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		
	,			
<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 Committee		575-887-6544		
US Bureau of Land Management		575-887-6544		
c				
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		
TVCV WCXICO State Emerge	ency operations center	303 170 3033		
National				
National Emergency Response Center (Washington, D.C.)		800-424-8802		

<u>Medical</u>				
Flight for Life - 4000 24th St.; Lubbock, TX		806-743-9911		
Aerocare - R3, Box 49F; Lubbock, TX		806-747-8923		
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM		505-842-4433		
SB Air Med Service - 2505	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
Other				
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		





N ↑ Exhibit D-1
Production Facilities Layout Diagram
East Lusk 15 Federal Com #4H
Cimarex Energy Co. of Colorado
15-19S-32E
SHL 900 FNL & 330 FEL
BHL 900 FNL & 330 FWL
Lea County, NM