### H2S PAGE 1 HOBBS OCD

#### Hydrogen Sulfide Drilling Operations Plan

- 1. Company and Contract personnel admitted on location should be trained by a qualified H<sub>2</sub>S safety instructor to the following: **RECEIVED** 
  - A. Characteristics of  $H_2S$ .

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- B. Physical Effects and Hazards.
- C. Proper Use of Safety Equipment and Life Support Systems.
- D. Principle and Operation of H<sub>2</sub>S Detectors, Warning System and Briefing.
- E. Evacuation Procedure, Routes and First Aid.
- F. Proper Use of 30 minute Pressure Demand Air Pack.
- 2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S Detectors and Audio Alarm System to be Located at Bell Nipple, End of Blooie Line (mud pit) and on Derrick floor or doghouse.
- 3. Windsock and/or Wind Streamers
  - A. Windsock at Mud Pit Area Should be High Enough to be Visible.
  - B. Windsock at Briefing Area Should be High Enough to be Visible.
  - C. There Should be a Windsock at Entrance to Location.
- 4. Condition Flags and Signs
  - A. Warning Sign on Access Road to Location.
  - B. Flags to be Displayed on Sign at Entrance to Location.
    - 1. Green Flag, Normal Safe Condition.
    - 2. Yellow Flag, Indicates Potential Pressure and Danger.
    - 3. Red Flag, Danger H<sub>2</sub>S Present in Dangerous Concentration Only Emergency Personnel Admitted to Location.
- 5. Well Control Equipment
  - A. See Attached Diagram.
- 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 or Cell Phone will be Used to Communicate off Location in Case of Available at Most Drilling Foreman's Trailer or Living Quarters.
- 7. Drillstem Testing
  - A. Exhausts will be Watered.
  - B. Flare Line will be Equipped with an Electric Igniter or a propane pilot light in case gas reaches the surface.
  - C. If Location is near any Dwelling a Closed DST will be Performed.
- 8. Drilling Contractor Supervisor will be Required to be Familiar with the Effects H<sub>2</sub>S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S Encountered, Mud system will be Altered if Necessary to Maintain Control of Formation. A Mud Gas Separator will be Brought into Service Along with H<sub>2</sub>S Scavengers if Necessary.

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# SMAENERGY

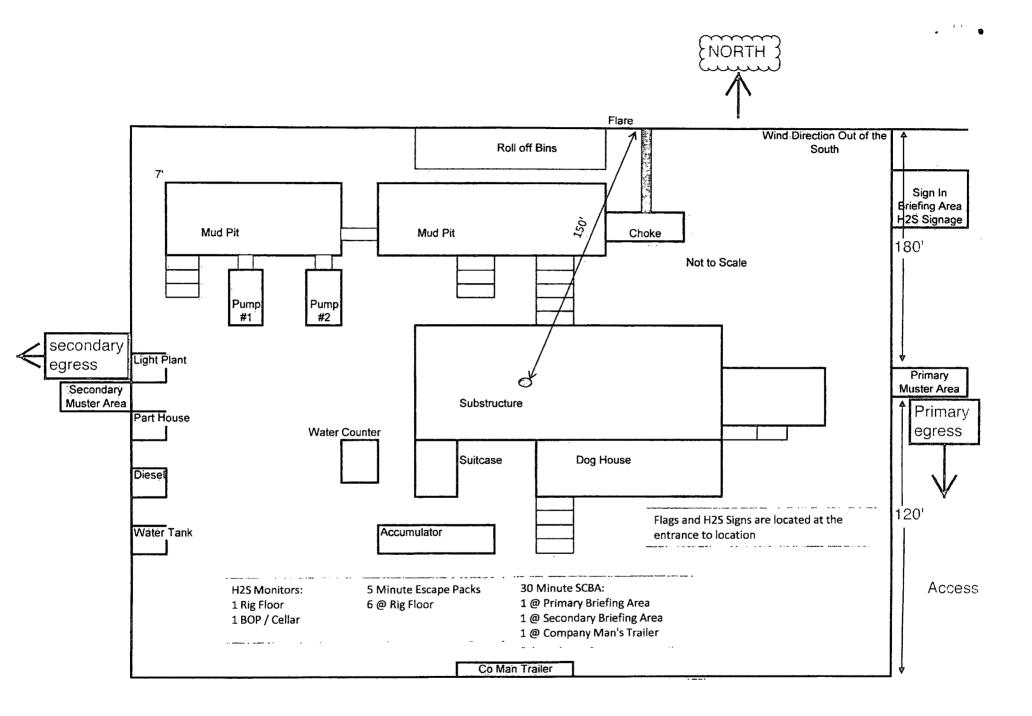
## Company Contact List:

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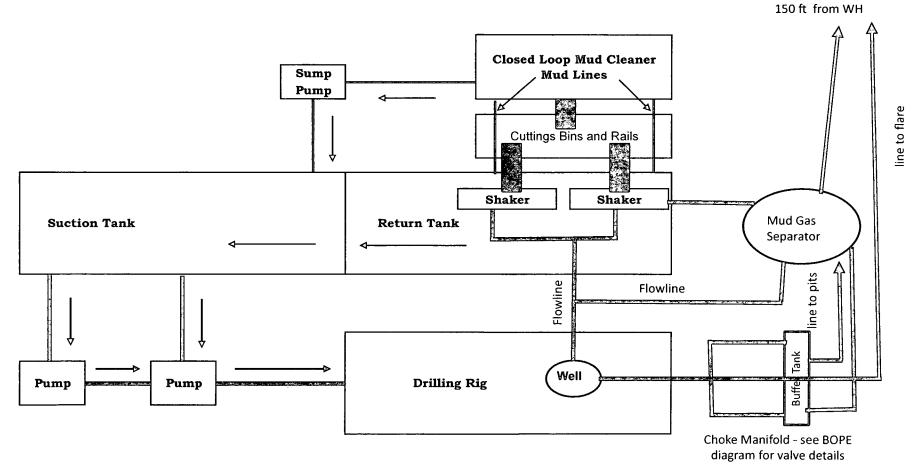
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New Mexico Operations:	Name:	Cellular:	Office:
Drilling Superintendent	Chris Bryan	405-538-7458	432-653-1265
Drilling Superintendent	Duane Winkler	970-769-4187	432-653-1265
Drilling Manager	Jonathan Nix	432-296-8956	432-688-3127
HSE Manager	David Carrillo	432-664-2095	432-688-3391
Project Manager	Malcolm Kintzing	432-212-2628	432-688-3125
Drilling Engineer	Michael Mataalii	432-271-2230	432-688-3392
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Lea County (Hobbs):			Contact Number:
State Police			575-392-5588
City Police			575-397-9265
Sheriff's Office			575-393-2515
Ambulance			
Fire Department			
Local Emergency Planning Committee			575-393-2870
NMOCD			575-393-6161
US Bureau of Land Management			
Eddy County (Carlsbad)			Contact Number:
State Police			575-885-3137
City Police			575-855-2111
Sheriff's Office			575-887-7551
Ambulance			911
Fire Department			
Local Emergency Planning Committee			575-887-3798
US Bureau of Land Management			575-887-6544
Emergency Services			Contact Numbers:
Boots & Coots IWC		······································	1-800-256-9688 or 281-931-8884
Cudd Pressure Control			915-699-0139 or 915-563-3356
Halliburton	<u>,</u>		575-746-2757
B.J. Services			575-746-3569
Flight for Life Lubbock TX			806-743-9911
Aerocare Lubbock TX			806-747-8923
Med Flight Air Ambulance Albuquerque NM			575-842-4433

Lifeguard Air Med Albuquerque NM\_\_\_\_\_\_575-272-3115\_



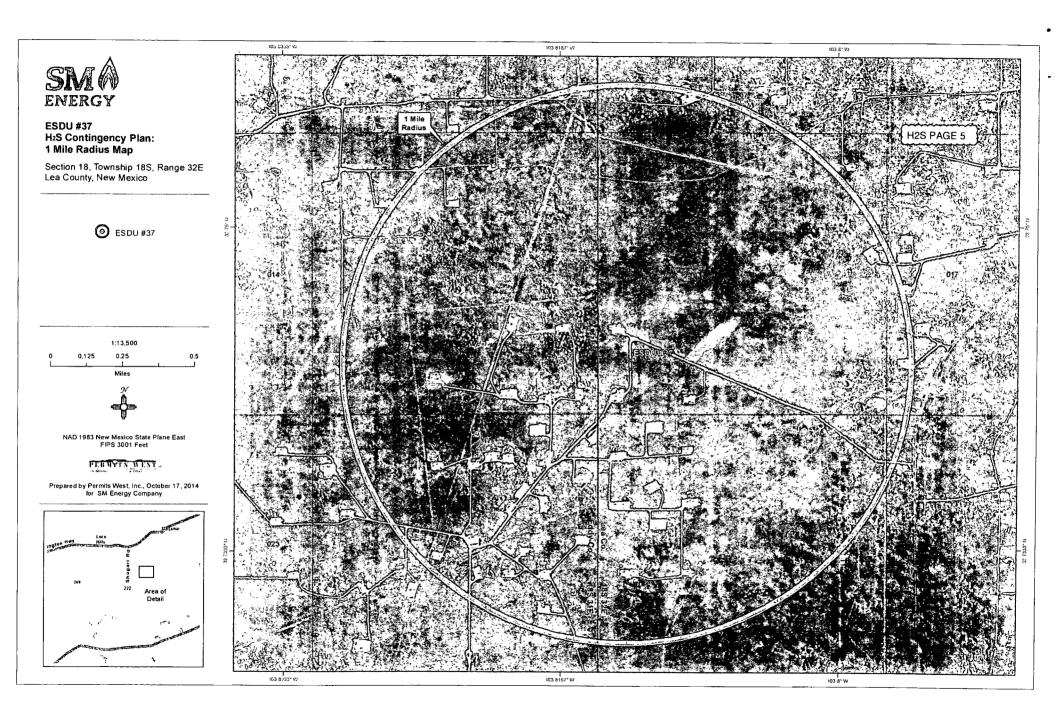
# **Choke Manifold Schematic for Closed Loop System**



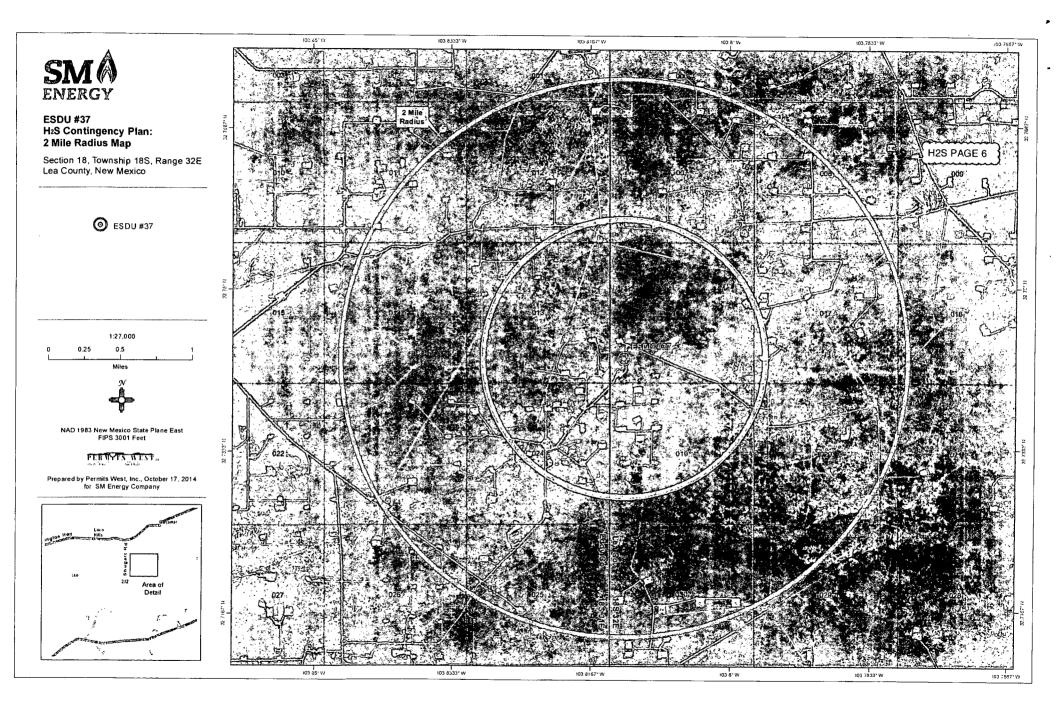
• <sup>11</sup> •

Flare/Flow line at least

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