HOBBS OCD

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### H<sub>2</sub>S Drilling Operations Plan

- a. All personnel will be trained in  $H_2S$  working conditions as required by Onshore Order 6 at least 500' before drilling into the Delaware Formation.
- b. Two briefing areas will be established. Each will be ≥150' from the wellhead, perpendicular from one another, and easily entered and exited. See H<sub>2</sub>S Page 5 for more details.
- c. H<sub>2</sub>S Safety Equipment/Systems:
  - i. Well Control Equipment
  - Flare line will be  $\geq$ 150' from the wellhead and ignited by a flare gun.
  - Beware of SO<sub>2</sub> created by flaring.
  - Choke manifold will include a remotely operated choke.
  - Mud gas separator
  - ii. Protective Equipment for Personnel
  - Every person on site will wear a personal  $H_2S$  and  $SO_2$  monitor at all times while on site. Monitors will not be worn on hats. Monitors will be worn on the front of the waist or chest.
  - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
  - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
  - Four emergency escape packs will be in the doghouse for emergency evacuation.
  - Hand signals will be used when wearing protective breathing apparatus.
  - Stokes litter or stretcher

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- Two full OSHA compliant body harnesses
- A 100 foot long x 5/8 inch OSHA compliant rope
- One 20 pound ABC fire extinguisher
- iii. H<sub>2</sub>S Detection & Monitoring Equipment
- Every person on site will wear a personal  $H_2S$  and  $SO_2$  monitor at all times while on site. Monitors will not be worn on hats. Monitors will be worn on the front of the waist or chest.
- A stationary detector with 3 sensors will be in the doghouse.

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- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.
- iv. Visual Warning System
- Color-coded H<sub>2</sub>S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current  $\mathsf{H}_2\mathsf{S}$  conditions.
- Two wind socks will be installed that will be visible from all sides.
- v. Mud Program
- A water based mud with a pH of  $\geq 10$  will be maintained to control corrosion, H<sub>2</sub>S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing  $H_2S$  gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H<sub>2</sub>S where formation pressures are unknown.
- vi. Metallurgy
- All equipment that has the potential to be exposed to  $H_2S$  will be suitable for  $H_2S$  service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).
- vii. Communication
- Cell phones and/or 2-way radios will be used to communicate from the well site.

d. A remote controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain  $H_2S$ .

Company Personnel to be Notified	
Mark Beach, Drilling Manager	Office: (281) 674-2019 Mobile: (281) 546-7665
Buddy Novak, Operations Engineer	Office: (281) 674-2449 Mobile: (713) 254-5418
Mark Prediger, Safety Manager	Office: (281) 674-2870 Mobile: (281) 798-5810
Local & County Agencies	
Monument Fire Department	911 or (575) 395-2221
Hobbs Fire Marshal	(575) 391-8185
Lea County Sheriff (Lovington)	911 or (575) 396-3611
Lea County Emergency Management (Lovington)	(575) 396-8602
Lea Regional Medical Center Hospital (Hobbs)	(575) 492-5000
State Agencies	
NM State Police (Hobbs)	(575) 392-5588
NM Oil Conservation (Hobbs)	(575) 370-3186
NM Oil Conservation (Santa Fe)	(505) 476-3440
NM Department of Transportation (Roswell)	(575) 637-7201
Federal Agencies	
BLM Carlsbad Field Office	(575) 234-5972
BLM Hobbs Field Station	(575) 393-3612
National Response Center	(800) 424-8802
US EPA Region 6 (Dallas)	(800) 887-6063 (214) 665-6444

## Veterinarians

Dal Paso Animal Hospital (Hobbs)	(575) 397-2286
Hobbs Animal Clinic & Pet Care (Hobbs)	(575) 392-5563
Great Plains Veterinary Clinic & Hospital (Hobb	os) (575) 392-5513

# Residents within 2 miles

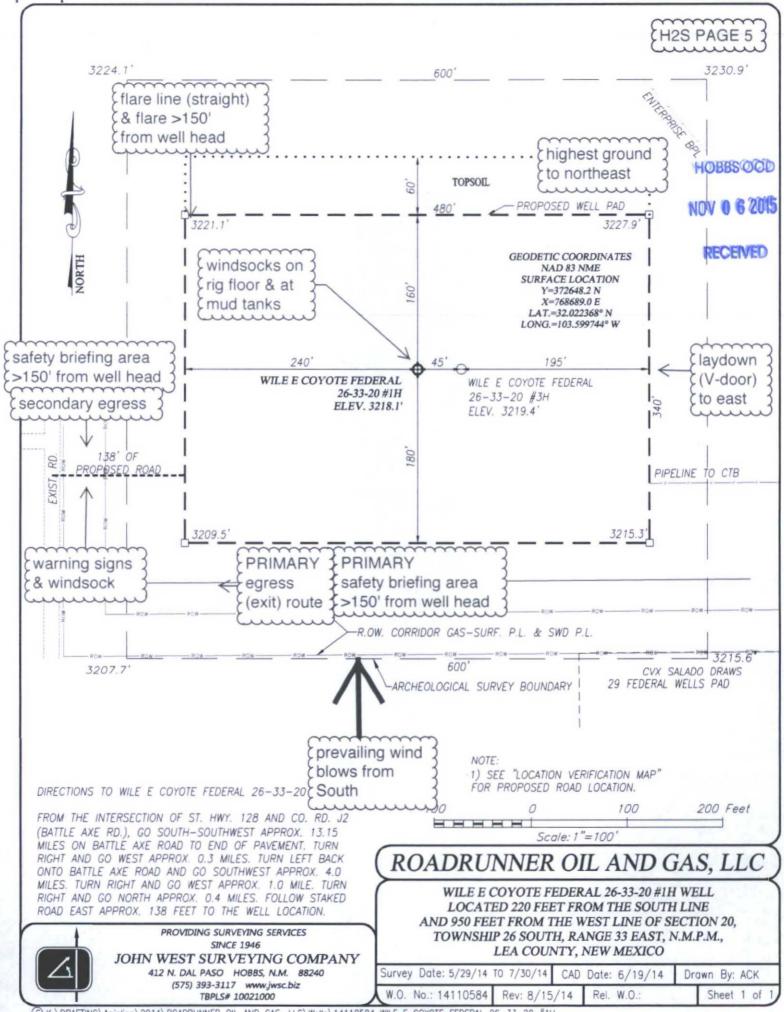
There are no residents within 2 miles.

## Air Evacuation

Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

### Contractors

Axiom Medical (Houston)	(877) 502-9466
Basic Energy (Artesia)	(575) 746-2217
Baker Hughes (Hobbs)	(575) 392-5556
DXP Safety (Hobbs)	(575) 393-9188
DXP Safety (Odessa)	(800) 530-8693
Indian Fire & Safety (Hobbs)	(575) 393-3093
Key Energy (Carlsbad)	(575) 885-2053
M-I SWACO (Midland)	(432) 742-5627
Petro Safety (Tyler)	(903) 939-9087
Safety International (Odessa)	(432) 580-3770



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