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H₂S 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 H₂S Page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be \geq 150' from the wellhead and ignited by a flare gun.
 - Beware of SO₂ 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. H₂S 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 H₂S 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 ≥ 10 will be maintained to control corrosion, H₂S 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 H₂S 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 | |
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| 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 |
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| 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 |
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| 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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