SHACKELFORD OIL COMPANY

LUSK FEDERAL #9-A HYDROGEN SULFIDE (H2S) CONTINGENCY DRILLING PLAN

Assumed 100 ppm ROE = 3000'
100 ppm H2S concentration shall trigger activation of this plan.

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be rigged up and in use when the company drills out from under surface casing. H_2S monitors, warning signs, wind indicators and flags will be in use.

- A. All personnel shall receive proper H2S training in accordance with Onshore Order 6 III.C.3.a
- B. Briefing Area: Two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/Gas Seperator.
 - Protective Equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed ar each briefing area. 2 units shall be stored in the safety trailer.
- b. Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.

Auxillary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft. 5/8" OSHA approved rope
- d. One 20# class ABC fire extinguisher
- H2S detection and monitoring Equipment:

The stationary detector with three sensors will be placed in the upper doghouse, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor, Bell nipple, end of flare line or where well bore fluid is being discharged (Gas sample tubes will be stored in the safety trailer).

Visual warning systems.

- a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition, at the drilling site.
- c. Two wind socks will be placed in strategic locations being visible from all angles.

Mud Program:

The mud program has been designated to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

Metallurgy:

- a. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, shall be suitable for H2S service.
- b. All elastomers used for packing and seals shall be H2S trim.
- Communication:

Communication will be via two way radio in emergency and company vehicles. Cell phones and land lines where available.

Contacting Authorities

Shackelford Oil Company personnel must liaison 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. Shackelford Oil Company's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER) and BLM Onshore Order #6.

H₂S Operations

Though no H_2S is anticipated during the drilling operation, this contingency plan will provide for methods to ensure the well is kept under control in the event an H_2S reading of 100 ppm or more are encountered. Once personnel are safe and the proper protective gear is in place and on personnel, the operator and rig crew essential personnel will ensure the well is under control, suspend drilling operations and shut-in the well (unless pressure build up or other operational situations dictate suspending operations will prevent well control), increase the mud weight and circulate all gas from the hole utilizing the mud/gas separator downstream of the choke, the choke manifold and the emergency flare system located 150' from the well. Bring the mud system into compliance and the H_2S level below 10 ppm, then notify all emergency officers that drilling ahead is practical and safe.

Proceed with drilling ahead only after all provisions of Onshore Order 6, Section III.C. have been satisfied.

H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS

Company Offices - Shackelford Oil Co. Office

432.682-9784

KEY PERSONNEL							
Name	Title	Location	Phone #				
BOB SHACKELFORD	PRODUCTION ENGINEER	MIDLAND	432-682-9784	432-813-7090			
DON SHACKELFORD	PRESIDENT	MIDLAND	432-682-9784				

Agency Call List					
City	City Agency or Office				
Artesia	Ambulance	911			
Artesia	State Police	575-746-2703			
Artesia	Sheriff's Office	575-746-9888			
Artesia	City Police	575-746-2703			
Artesia	Fire Department	575-746-2701			
Artesia	Local Emergency Planning Committee	575-746-2122			
Artesia	New Mexico OCD District II	575-748-1283			
Carlsbad	Ambulance	911			
Carlsbad	State Police	575-885-3137			
Carlsbad	Sheriff's Office	575-887-7551			
Carlsbad	City Police	575-885-2111			
Carlsbad	Fire Department	575-885-2111			
Carlsbad	Local Emergency Planning Committee	575-887-3798			
Carlsbad	US DOI Bureau of Land Management	575-887-6544			
State Wide	New Mexico Emergency Response Commission ("NMERC")	505-476-9600			
State Wide	NMERC 24 hour Number	505-827-9126			
State Wide	New Mexico State Emergency Operations Center	505-476-9635			
National	National Emergency Response Center (Washington, D.C.)	800-424-8802			

H2S CONTINGENCY DRILLING PLAN EMERGENCY CONTACTS

Emergency Services							
Name	Service	Location	Telephone Number	Alternate Number			
Boots & Coots International Well Control	Well Control	Houston / Odessa	1-800-256-9688	281-931-888			
Cudd Pressure Control	Well Control & Pumping	Odessa	915-699-0139	915-563-335			
Baker Huges Inc.	Pumping Service	Artesia, Hobbs and Odessa	575-746-2757	SAME			
Total Safety	Safety Equipment and Personnel	Artesia	575-746-2847	SAME			
Cutter Oilfield Services	Drilling Systems Equipment	Midland	432-488-6707	SAME			
Assurance Fire & Safety	Safety Equipment and Personnel	Artesia	575-396-9702	575-441-222			
Flight for Life	Emergency Helicopter Evacuation	Lubbock	806-743-9911	SAME			
Aerocare	Emergency Helicopter Evacuation	Lubbock	806-747-8923	SAME			
Med Flight Air Ambulance	Emergency Helicopter Evacuation	Albuquerque	505-842-4433	SAME			
Artesia General Hospital	Emergency Medical Care	Artesia	575-748-3333	702 North 13 Street			

EXHIBIT D

LUSK FEDERAL #9-A V-DOOR EAST Rig Up South

NORTH

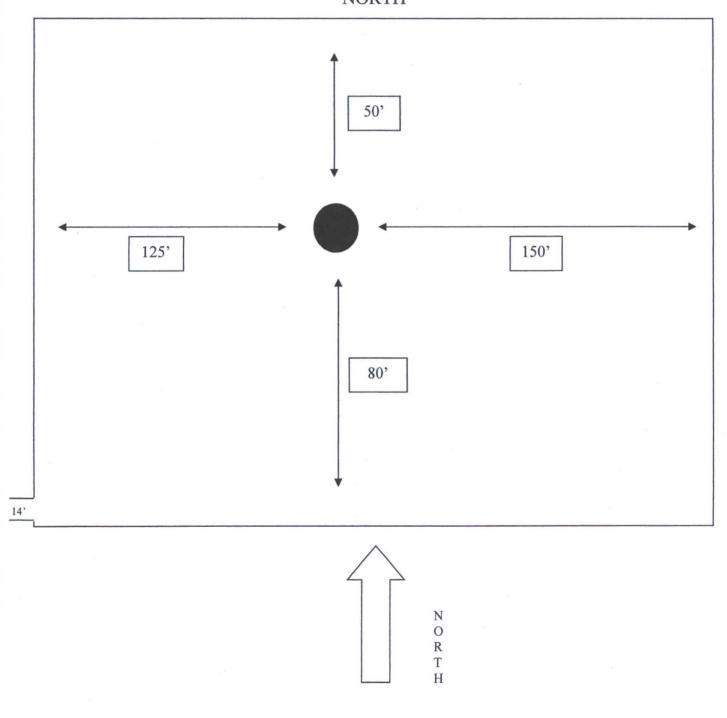


EXHIBIT C

Interim Reclamation & Production Facilities LUSK FEDERAL #9-A V-DOOR EAST

