30-025-40339

# II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

# 1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

#### 2. Protective equipment for essential personnel:

A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

# 3. H2S detection and monitoring equipment:

A. 1 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

# 4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

#### 5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

# 6. Metallurgy:

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

#### 7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

# 8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

#### EXHIBIT #7

# WARNING

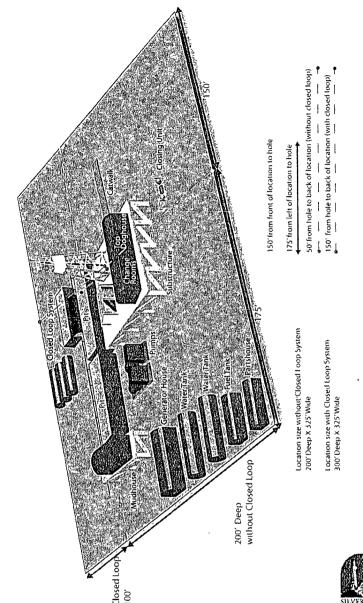
# YOU ARE ENTERING AN H2S

AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH MACK ENERGY FOREMAN AT OFFICE

MACK ENERGY CORPORATION
1-575-748-1288

# DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



Location Layout

□ ∺ Silver Oak Drilling ~ 10 Blico Road, Artesia, NM 88210 ;;; 575.746.4

# Mack Energy Corporation Call List, Eddy County

Artesia (575)	Cellular	Office	Home
Jim Krogman	746-5515	748-1288	
Lonnie Archer.	746-7889	748-1288	365-2998
Donald Archer.	748-7875	748-1288	748-2287
	746-7132		
Kevin Garrett	746-7423	748-1288	•••••
Agency Call L	<u>ist (575)</u>		
			•
Artesia			5.4.C.0500
	State Police		
	City Police		
	Sheriff's Office		
	Ambulance		
]	Fire Department		746-2701
	LEPC (Local Emergency Plan		
1	NMOCD		/48-1283
Carlsba	ıd		
	State Police		885-3137
	City Police		
:	Sheriff's Office		887-7551
,	Ambulance		911
]	Fire Department		885-2111
	LEPC (Local Emergency Plan		
]	Bureau of Land Management.		887-6544
]	New Mexico Emergency Resp	onse Commission	(505)476-9690
,	24 Hour		(505)827-9126
	Natonal Emergency Response		
Emorge	ency Services		
	Boots & Coots IWC	1-800-256-968	8 or (281)931-8884
	Cudd pressure Control	915)699 <b>-</b> 013	39 or (915)563-3356
	Halliburton		
	B. J. Services		
	Flight Foulify Lubbort TV		(206)742 0011
	Flight For Life-Lubbock, TX.		(206)747 2022
	Aerocare-Lubbock, TX		(505)042-4422

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Med Flight Air Amb-Albuquerque, NM.....(505)842-4433 Lifeguard Air Med Svc. Albuquerque, NM.....(505)272-3115

#### 9. Plans for Restoration of the Surface:

- A. Upon completion of the proposed operations, if the well is completed, any additional caliche required for facilities will be obtained from a BLM approved caliche pit.
- B. In the event of a dry hole. Topsoil removed from the drill site will be used to recontour the area to its original natural level and reseeded as per BLM specifications.
- C. If the well is productive, rehabilitation plans are as follows:
  - 1) Topsoil removed from the drill site will be used to recontour the surrounding area to the original natural level and reseeded as per BLM specifications.
  - D. Exhibit #15 below shows the proposed downsized well site after Interim Reclamation. Dimensions are estimates on present conditions and are subject to change.

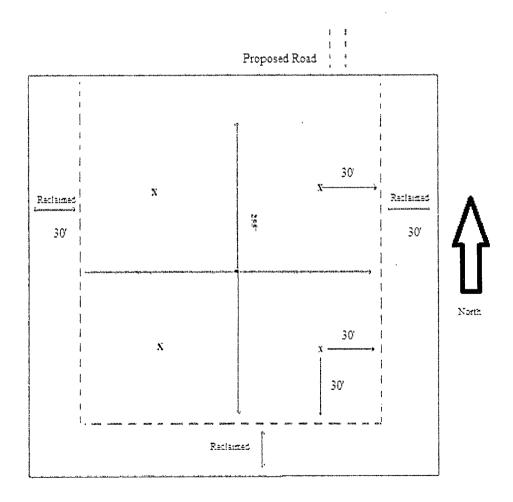


Exhibit #15

NOV 1 4 2011

# SURFACE USE AND OPERATING PLAN

# 1. Existing Access Roads

RECEIVED

- A. All roads to the location are shown in Exhibit #6. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling well will be done where necessary.
- B. Directions to Location: From the intersection of Co Rd #126 (Maljamar Rd) & State Hwy #529, go West-Northwest on state highway #529 approx. 2.6 miles. Go North approx. 0.85 miles. Turn right and go East approx. 700 feet to a proposed road survey. Follow road South to this location.
- C. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.