#### **COG OPERATING LLC**

#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

#### I. <u>HYDROGEN SULFIDE TRAINING</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the  $H_2S$  Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable  $H_2S$  zone (within 3 days or 500 feet) and weekly  $H_2S$  and well control drills for all personnel in each crew. The initial training session

shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

#### II. <u>H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS</u>

Note: All H<sub>2</sub>S 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 reasonably expected to contain H<sub>2</sub>S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H<sub>2</sub>S detection and monitoring equipment:

2 - portable H<sub>2</sub>S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when

H<sub>2</sub>S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs 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.

E. Mud Program:

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to the surface.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be

suitable for H<sub>2</sub>S service.

G. Communication:

Company vehicles equipped with cellular telephone.

COG Operating LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be animal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.



## EMERGENCY CALL LIST

	Office	Mobile	Home
COG West Ofc	575-748-6940		
Sheryl Baker	575-748-6940	432-934-1873	575-748-2396
Ron Beasley	575-746-2010	432-254-9883	
Seth Wild	575-748-6940	432-528-3633	
Dean Chumbley	575-748-3303	575-748-5988	575-748-2426

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## EMERGENCY RESPONSE NUMBERS Eddy County, New Mexico

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State Police	575-748-9718	
Eddy County Sheriff	575-746-2701	
Emergency Medical Services (Ambulance)	911 or 575-746-2701	
Eddy County Emergency Management (Harry Burgess)	575-887-9511	
State Emergency Response Center (SERC)	575-476-9620	
Carlsbad Police Department	575-885-2111	
Carlsbad Fire Department	575-885-3125	
New Mexico Oil Conservation Division	575-748-1283	
Indian Fire & Safety	800-530-8693	
Halliburton Services	800-844-8451	

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Exhibit 4 . . .

A.

North

# Production Facility Layout

Airbonita 12 Federal #2H



#### COG OPERATING LLC MULTI-POINT SURFACE USE AND OPERATIONS PLAN

### Airbonita 12 Federal #2H SHL: 375' FSL & 1980' FEL BHL: 375' FNL & 1980' FEL Section 12 T22S R32E Lea County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

#### 1. EXISTING ROADS:

a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by John West Surveying Company.

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- b. Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2. Right of way using this proposed route is being requested if necessary.
- 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.

#### DIRECTIONS:

From the intersection of U.S. Highway #176 and Marathon Road, go west on U.S. Highway #176 approx. 6.0 miles. Turn left and go south approx. 2.2 miles. Turn left and go southeast approx. 0.8 miles. Veer right and go southeast approx. 0.3 miles. Veer right and go south approx. 4.8 miles. Turn right and go west approx. 0.9 miles. Turn left and go south approx. 0.2 miles. Turn left and go east approx. 0.2 miles to the existing Prohibition 12 Federal #12 well. Follow proposed road survey stakes east approx. 1045 feet. This location stake is approx. 212 feet southeast.

#### PLANNED ACCESS ROAD:

COG will be using a proposed access road of 1045' coming in from the west side of the pad.

#### 2. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

In the event the well is found productive, the Airbonita 12 Federal #2H

- A. tank battery would be utilized and the necessary production equipment will be installed at the well site. See Exhibit #4.
- B. All flowlines will adhere to API standards
- C. If electricity is needed, power will be obtained from Central Valley Electric. Central Valley Electric will apply for ROW for their power lines.
- D. If the well is productive, rehabilitation plans are as follows:
  - i. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

#### 3. LOCATION AND TYPES OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in Exhibit #2. On occasion, water will be obtained form a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, the existing and proposed road shown in Exhibit "2" will be utilized.

#### 5. CONSTRUCTION MATERIALS:

All Caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

#### 6. METHODS OF HANDLING WASTE MATERIAL:

- a. All trash, junk and other waste material will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- b. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- c. A porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- d. Disposal of fluids to be transported by an approved disposal company.

#### 6. ANCILLARY FACILITIES:

No campsite or other facilities will be constructed as a result of this well.

#### 7. WELLSITE LAYOUT:

- a. Exhibit 1 shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicates proposed location of reserve and sump pits if utilized and living facilities.

c. Mud pits in the active circulating system will be steel pits and a closed loop system will be utilized.

#### 8. PLANS FOR SURFACE RECLAMATION:

- a. After finishing drilling and/or completion operations, if the well is found noncommercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original state.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

#### 9. SURFACE OWNERSHIP:

The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and the surface location will be restored as directed by the BLM.

#### **10.OTHER INFORMATION:**

- a. The area surrounding the well site is grassland. The vegetation is moderately sparse with native prairie grass and mesquite bushes. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography. Reserve pit will not be used on this location therefore no reclamation is needed.
- d. Topsoil will be stockpiled on the <u>SOUTH SIDE</u> of the location until it is needed for interim reclamation described in paragraph above.

#### **12.OPERATOR'S REPRESENTATIVE:**

A. Through A.P.D. Approval: B. Through Drilling Operations

Rand French, Regulatory Supervisor COG Operating LLC Artesia, NM 88210 Phone (575)748-6940 Cell (432) 254-5556 Sheryl Baker, Drilling Supervisor COG Operating LLC Artesia, NM 88210 Phone (575)748-6940 Cell (432)934-7873

#### **CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by COG Operating LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

4-13-11

Date

COG OPERATING LLE m

Ránd French/ Regulatory Supervisor



## VICINITY MAP



ALE: I = 2 MILES

SEC. <u>12</u> TWP.<u>22–S</u> RGE. <u>32–E</u> SURVEY N.M.P.M. COUNTY <u>LEA</u> STATE NEW MEXICO DESCRIPTION <u>375' FSL & 1980' FEL</u> ELEVATION <u>3635'</u> OPERATOR <u>COG OPERATING, LLC</u> LEASE <u>AIRBONITA 12 FEDERAL</u>



#### EXHIBIT #2

# LOCATION VERIFICATION MAP



SEC. <u>12</u> TWP. <u>22-S</u> RGE. <u>32-E</u> SURVEY N.M.P.M. COUNTY <u>LEA</u> STATE NEW MEXICO DESCRIPTION <u>375'</u> FSL & <u>1980'</u> FEL ELEVATION <u>3635'</u> OPERATOR <u>COG</u> OPERATING, LLC LEASE <u>AIRBONITA 12 FEDERAL</u> U.S.G.S. TOPOGRAPHIC MAP THE DIVIDE, N.M. CONTOUR INTERVAL: THE DIVIDE, N.M. – 10' GRAMA RIDGE, N.M. – 10' NORTH



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