MAY 09 2016

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COG Operating LLC

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

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:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

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

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

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 with minimum of one remotely operated choke.
- C. Closed Loop Blow Down Tank
- D. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- E. Auxiliary equipment may include if applicable: mud-gas separator, annular preventer & rotating head.

2. Protective equipment for essential personnel:

A. SCBA (Self contained breathing apparatus) 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

A. 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.
- 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

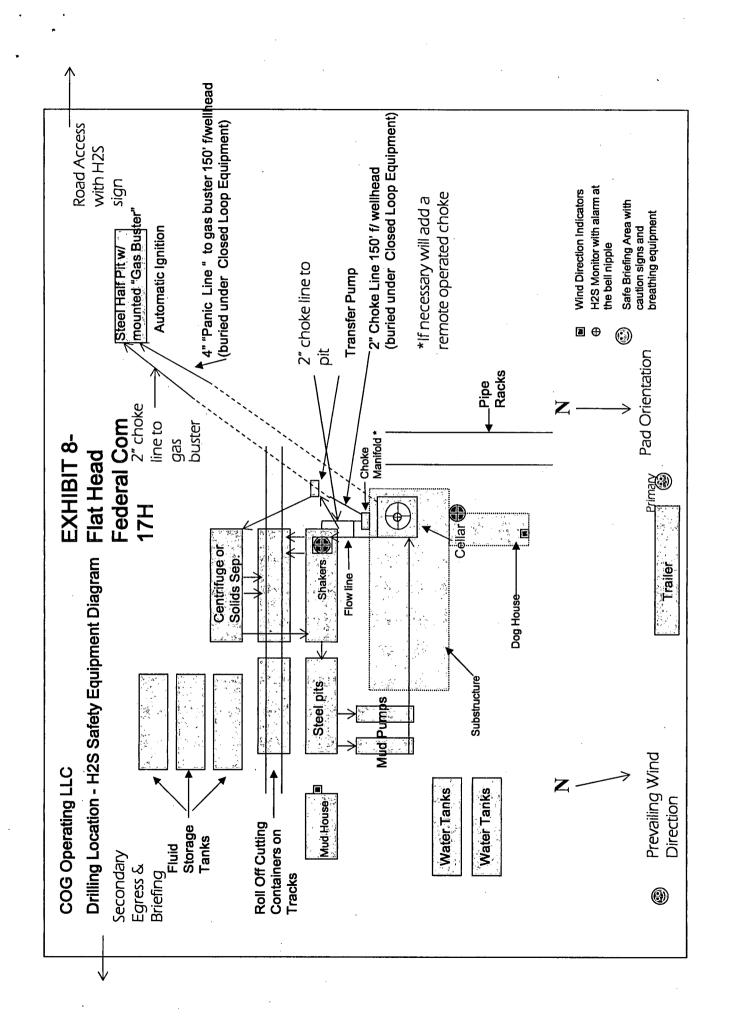
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH COG OPERATING FOREMAN AT

COG OPERATING LLC 1-432-683-7443 1-575-746-2010

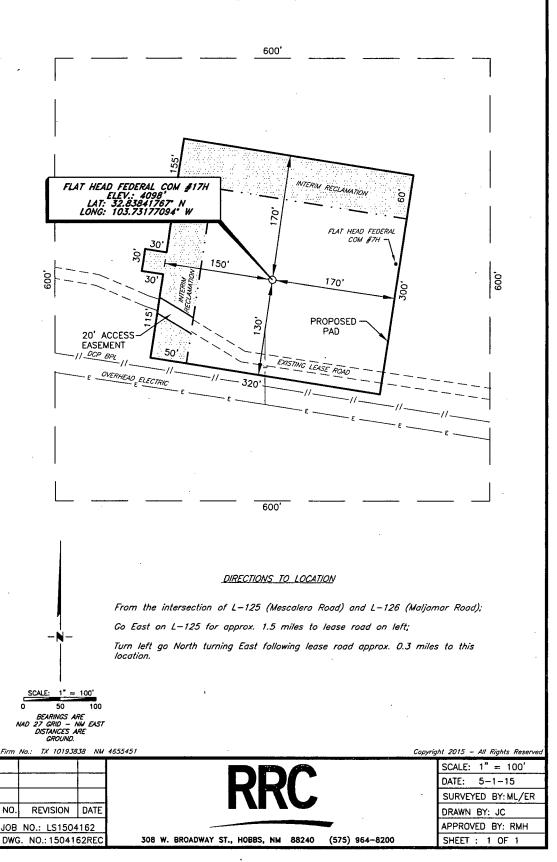
ADTESIA FIRE DEDT 575 746 5050

ARTESIA FIRE DEPT. 575-746-5050 ARTESIA POLICE DEPT. 575-746-5000 EDDY CO. SHERIFF DEPT. 575-746-9888 LEA COUNTY EMERGENCY NUMBERS

HOBBS FIRE DEPT. 575-397-9308 HOBBS POLICE DEPT. 575-397-9285 LEA CO. SHERIFF DEPT. 575-396-1196



COG OPERATING, LLC
INTERIM RECLAMATION
FLAT HEAD FEDERAL COM #17H
(1190' FNL & 1160' FEL)
SECTION 14, T17S, R32E
N. M. P. M., LEA CO., NEW MEXICO



SWD Well Exhibit

Well Name	API Number	Section	Twn (S)	Rng (E)	County
Aid State 14 #1 SWD	30-015-29569	14	.17	28	Eddy
Bate Federal #3 SWD	30-025-22597	. 35	19	33	Lea
Big George #3 SWD	30-015-28759	12	17	· 28	Eddy
Biscuit Hills #1 SWD	30-015-28142	29	17	31	*Eddy
Burch Keely Unit #113 SWD	30-015-03068	.24	17	29	Eddy
Chase 21 State Com #1 SWD	30-015-30874	21	17	29	Eddy
Curly Fed #2 SWD	30-025-38442	34	17	32	Lea
Delta Wing Fed #1, SWD	30-015-26309	, 15	. 17	29	Eddy
Durango 15 State Com #1 SWD	30-015-31557	15	17	29	Eddy
Empire Federal #3 SWD	30-015-37831	10	17	29	Eddy
Empire Fed 10 #5 SWD	30-015-39446	10	17	29	Eddy
Empire State 2 SWD	30-015-37787	9	17	29	Eddy
Empire State 9 #4 SWD	30-015-38972	9	17	29	Eddy
Empire State SWD 15 #1	<u>30-</u> 01 <u>5</u> -39771	15	17:	29	Eddy
Empire State SWD 8 #1	30-015-38973	8	17	29	Eddy
Federal 18-4 SWD	30-025-01671	18	. 19	.33 🗼	Lea
Federal BI #1 SWD	30-025-27068	28	17	32	Lea
Loco Hills 33 #4 SWD	30-015-37269	33	.17	30	Eddy
Loco Hills 33 #6 SWD	30-015-39478	33	17	30	Eddy
Loco Hills 34 #3 SWD	30-015-37270	34	17 🚨	30 .	Eddy
Loco Hills 34 #5 SWD	30-015-39477	34	17	30	Eddy
Loco Hills 35 #1 SWD	*30-015-31635 <u>.</u>	. 36	17 🚉	30	Eddy
Loco Hills 35 #2 SWD	30-015-37268	35	17	30	Eddy
Maljamar 29 #1 SWD	30-025-39519	29	, 17	32	⊈Lea′
Maljamar SWD 30 #2	30-025-40310	30	17	32	Lea
Mary Dodd A #47 SWD	30-015-20408	22	17	29	Eddy
Mary Dodd B Deep Fed #2 SWD	30-015-31041	. 14	17	29	Eddy
Muskegon 16 State Com #1	30-015-27108	16	17	29	Eddy
Oxy Spumoni St #1 SWD	30-015-33089	16	17	31	Eddy
Pronghorn SWD #1	30-025-32735	24	^ 19 ^{, ^}	32	Lea
Saber Fed #1SWD	30-015-27882	11	17	29	Eddy