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

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### Gunner 8 Federal Com #4H SHL: 190' FSL & 380' FEL of Section 8 T26S R34E BHL: 330' FNL & 420' FEL of Section 5 T26S R34E 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.
- b. Location Verification Map Exhibit 2 is a portion of a topo map showing the well site and existing roads to be utilized for access. Existing roads are marked in green and indicate access from NM Hwy 128. 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:

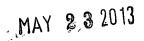
See  $600' \times 600'$  plat for directions.

#### PLANNED ACCESS ROAD:

- a. COG Operating LLC plans to drill the Gunner 8 Federal #5H well first, followed by the Gunner 8 Federal #4H, #6H and #7H. 1,310' of existing two track road (from the existing caliche road to the P&A Zysk Federal #1 well pad) is planned to be upgraded. This two track road is indicated in yellow on the attached Access Road Survey Plat Exhibit 2A. Proposed new access road of 2,990' is indicated in red on Exhibit 2A and is planned from the P&A Zysk Federal #1 well pad to the #6H well pad and continuing on to the #5H and then to the #4H well pad.
- b. Width of road is 14' wide, crown design, the road is crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches are 3 feet wide with 3:1 slopes.

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

A. In the event the well is found productive, a Gunner 8 Federal Com #4H tank battery will be constructed and the necessary production equipment will be installed at the well site. See Exhibit #3.



- C. If electricity is needed, power will be obtained from Xcel Energy. Xcel Energy 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>EAST SIDE</u> of the location until it is needed for interim reclamation described in paragraph above.

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

Through A.P.D. Approval:	В.	Through Drilling Operations		
Melanie Parker, Regulatory Coordinator		Sheryl Baker, Drilling Supervisor		
COG Operating LLC		COG Operating LLC		
Artesia, NM 88210		Artesia, NM 88210		
Phone (575)748-6940		Phone (575)748-6940		
Cell (432) 553-9834		Cell (432)934-7873		
	COG Operating LLC Artesia, NM 88210 Phone (575)748-6940	Melanie Parker, Regulatory Coordinator COG Operating LLC Artesia, NM 88210 Phone (575)748-6940		

COG Production LLC Gunner 8 Federal Com #4H Section 8-T26S-R34E

## **Operator Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in the APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this  $1^{\pm}$  day of October, 2012. Allanie Signed:

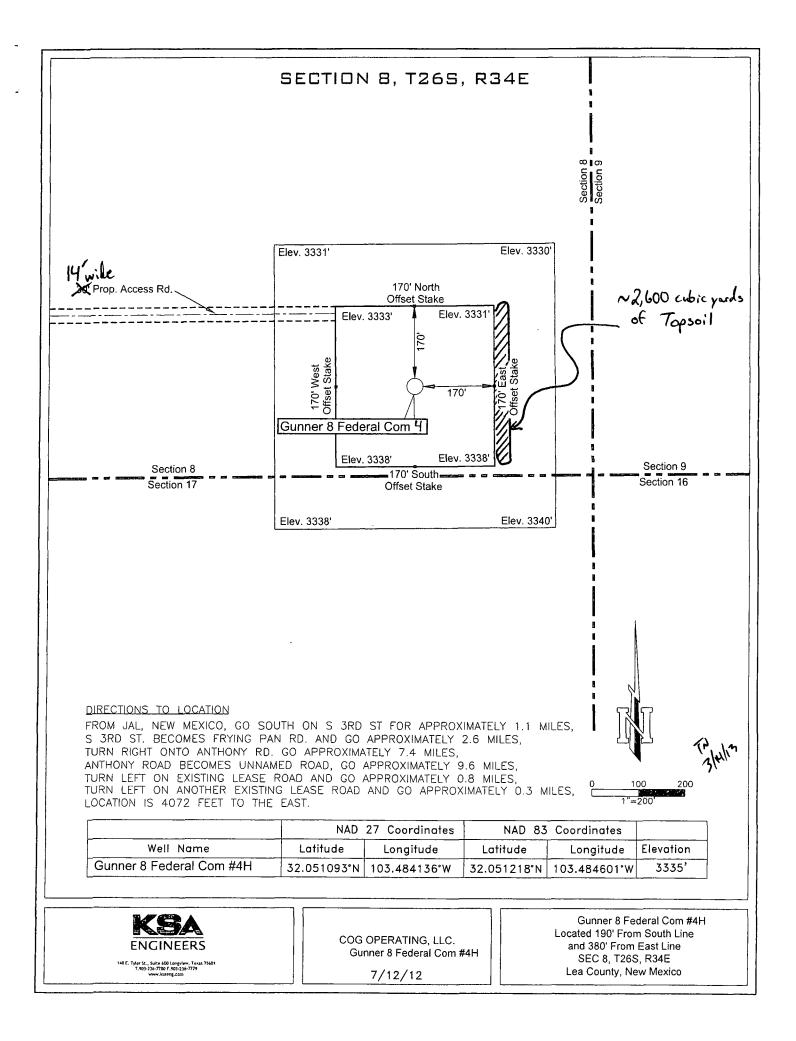
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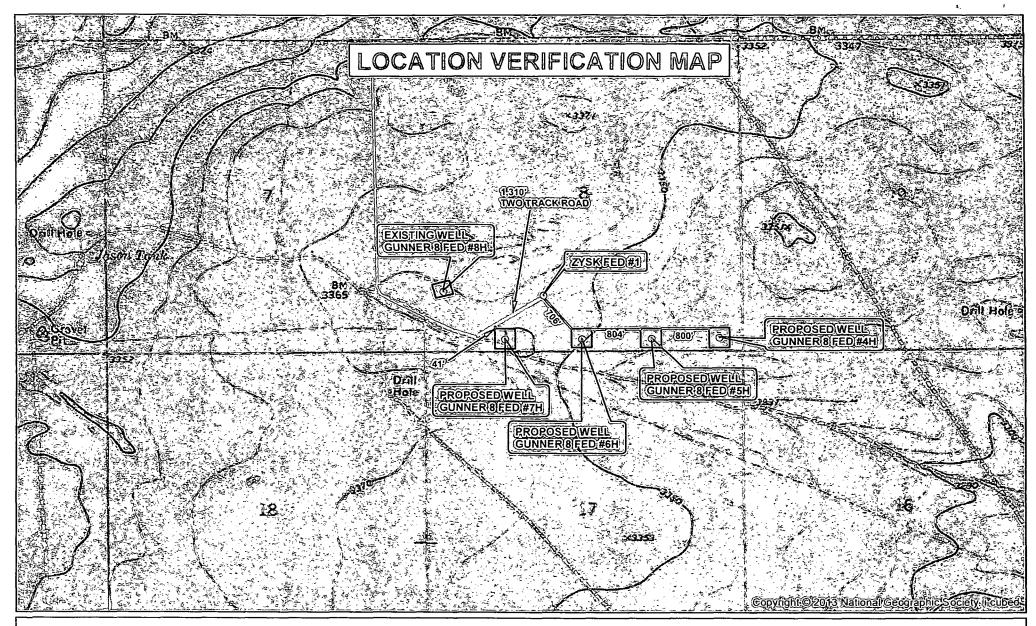
Melanie Parker

Position Title: Regulatory Coordinator

Address: 2208 West Main Street, Artesia, NM 88210

Telephone: 575-748-6940





SEC. 8, TWP. 26S, RGE. 34E SURVEY: N.M.P.M COUNTY: LEA STATE: NEW MEXICO DESCRIPTION: GUNER 8 FED #7H 190' FSL, 1350' FWL

ELEVATION: 3354.9' OPERATOR: COG OPERATING LLC LEASE: GUNER 8 FED

W.O. # 13-248

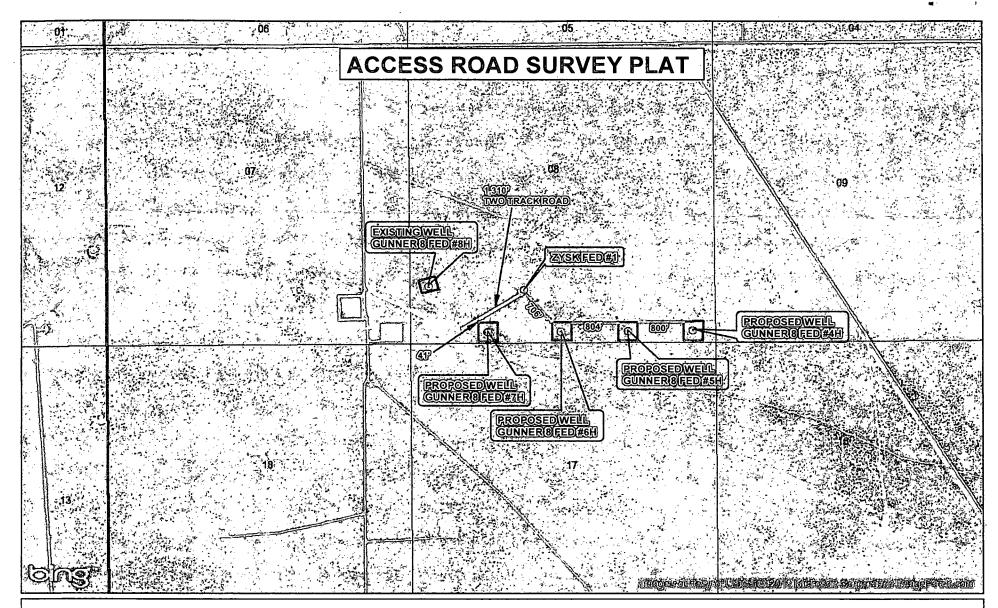
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○ WELL
◯ WELL PAD
─ PROPOSED ROAD
TWO-TRACK TO BE UPGRADED
─ MAIN ROAD

HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad\_harcrow77@yahoo.com



MAP DATE: 4/29/2013



SEC. 8, TWP. 26S, RGE. 34E SURVEY: N.M.P.M COUNTY: LEA STATE: NEW MEXICO DESCRIPTION: GUNER 8 FED #7H 190' FSL, 1350' FWL

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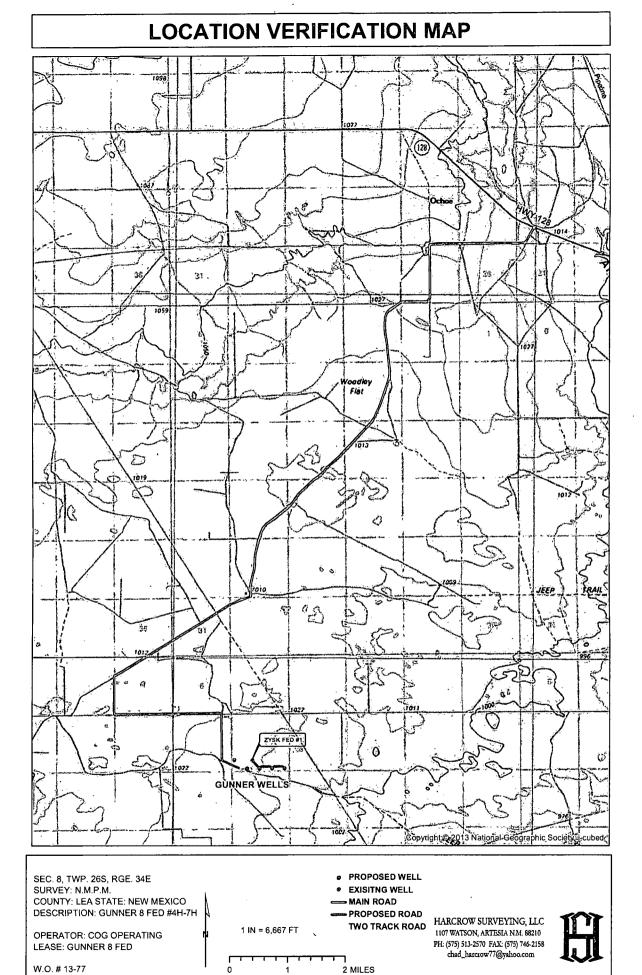
# **Exhibit 2A**

 ⊘ WELL
□ WELL PAD
□ PROPOSED ROAD
TWO-TRACK TO BE UPGRADED
□ MAIN ROAD

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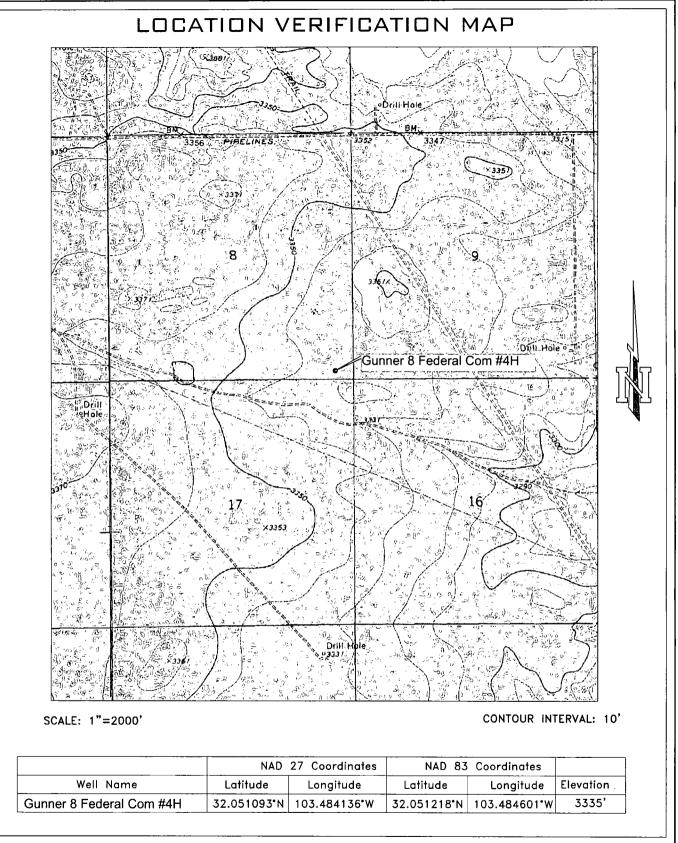


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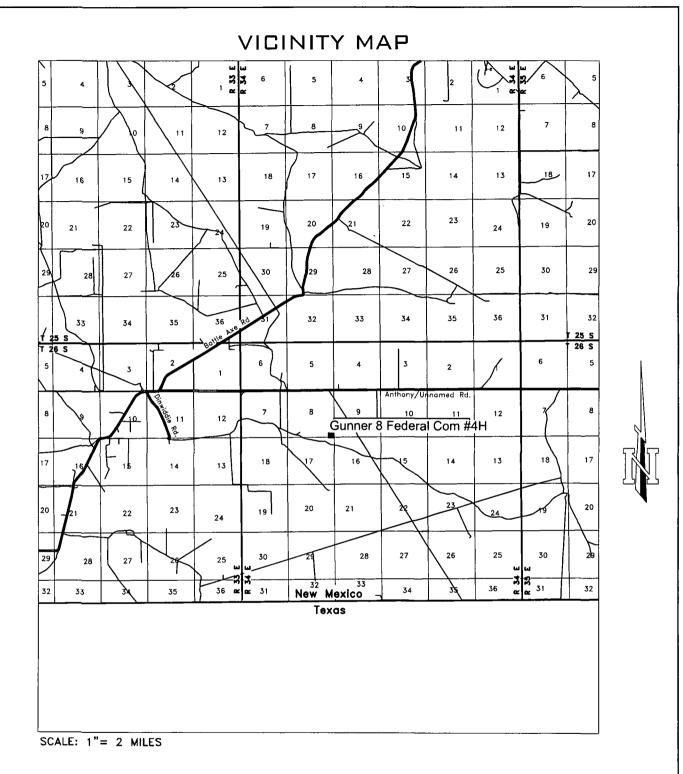
**Exhibit 2** 

MAP DATE: 4/17/2013





COG OPERATING, LLC. Location Verification Map Gunner 8 Federal Com #4H Gunner 8 Federal Com #4H Located 190' From South Line and 380' From East Line SEC 8, T26S, R34E Lea County, New Mexico



	NAD 27 Coordinates		NAD 83 Coordinates		
Well Name	Latitude	Longitude	Latitude	Longitude	Elevation
Gunner 8 Federal Com #4H	32.051093°N	103.484136°W	32.051218°N	103.484601°W	3335'



COG OPERATING, LLC. Vicinity Map Gunner 8 Federal Com #4H Gunner 8 Federal Com #4H Located 190' From South Line and 380' From East Line SEC 8 T26S, R34E Lea County, New Mexico

