

30-015-38955

**COG Operating LLC**  
**MULTI-POINT SURFACE USE AND OPERATIONS PLAN**

**Tamago 24 Federal #2H**  
**Surf: 1650' FNL & 330' FEL**  
**BHL: 1650' FNL & 330' FWL**  
**Section 24, T26S, R24E**  
**Eddy 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 Madron Surveying Inc.
- 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 Mile Marker 6 on Hwy 62/180 go South 0.8 miles, turn left (east) on caliche road and go 1.7 miles to a road intersection, turn right (South) on caliche road and go 0.15 miles to Tamago 24 Federal #2H well site.

**2. PLANNED ACCESS ROAD:**

COG Operating LLC will be using an existing access road. Please see directions above.

**3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:**

**#2H**

- A. In the event the well is found productive, the Tamago 24 Federal #2H tank battery would be utilized and the necessary production equipment will be installed at the well site. A Site Facilities Diagram will be submitted upon completion of facility. All flow lines will adhere to API standards
- B. If electricity is needed, power will be obtained from Central Valley Electric. Central Valley Electric will apply for ROW for their power lines.

*per conversation  
R. French  
12-15-10.*

- C. 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.

**4. 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 from 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.

**7. ANCILLARY FACILITIES:**

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

**8. WELLSITE LAYOUT:**

- a. Exhibit 3 shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicates proposed location of fresh water 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.

## **9. PLANS FOR SURFACE RECLAMATION:**

- a. After finishing drilling and/or completion operations, if the well is found non-commercial, 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. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. 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.

## **10. 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.

## **11. OTHER INFORMATION:**

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, some mesquite bushes and shinnery oak. 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. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Boone Archeological and forwarded to the BLM office in Carlsbad, New Mexico.

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

A. Through A.P.D. Approval:

Rand French  
Regulatory Coordinator  
COG Operating LLC  
2208 W Main Street  
Artesia, NM 88210  
Phone: 575-748-6940  
Cell: 575-513-1835

B. Through Drilling Operations:

Sheryl Baker  
Drilling Superintendent  
COG Operating LLC  
2208 W Main Street  
Artesia, NM 88210  
Phone: 575-748-6940  
Cell: 575-934-1873

**CERTIFICATION:**

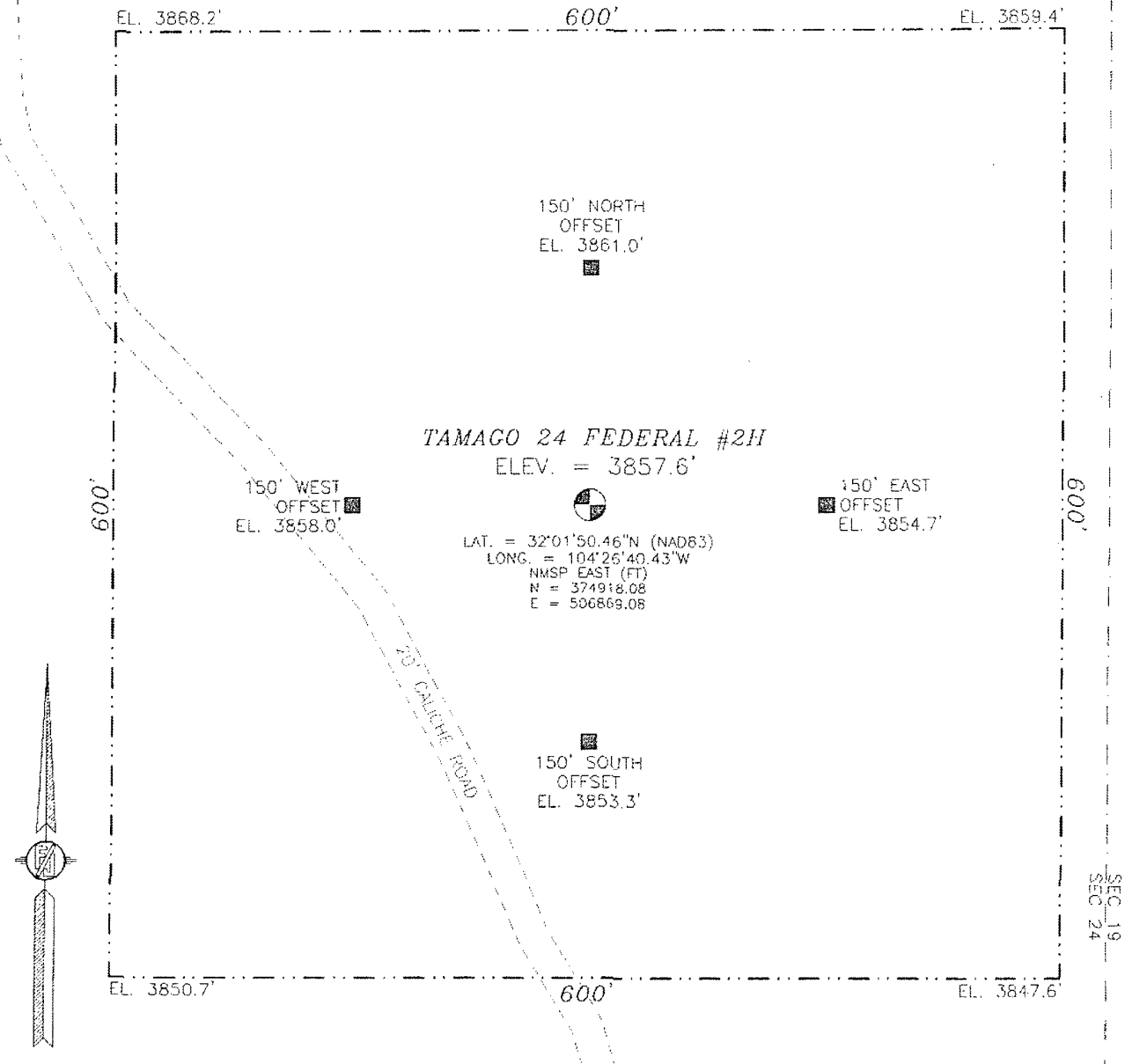
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated 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.

12-2-16  
Date

COG Operating LLC

  
Sheryl Baker  
Drilling Superintendent

SECTION 24, TOWNSHIP 26 SOUTH, RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO



0 10 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM MILE MARKER 6 ON U.S. HWY 62/180 GO SOUTH 0.8 MILES,  
TURN LEFT (EAST) ON CALICHE RD AND GO 1.8 MILES TO A FORK IN  
ROAD TAKE RIGHT FORK (SOUTH) DRIVE 0.1 MILES TO SITE

COC OPERATING, LLC  
**TAMAGO 24 FEDERAL #2H**

LOCATED 1650 FT. FROM THE NORTH LINE  
AND 330 FT. FROM THE EAST LINE OF  
SECTION 24, TOWNSHIP 26 SOUTH,  
RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

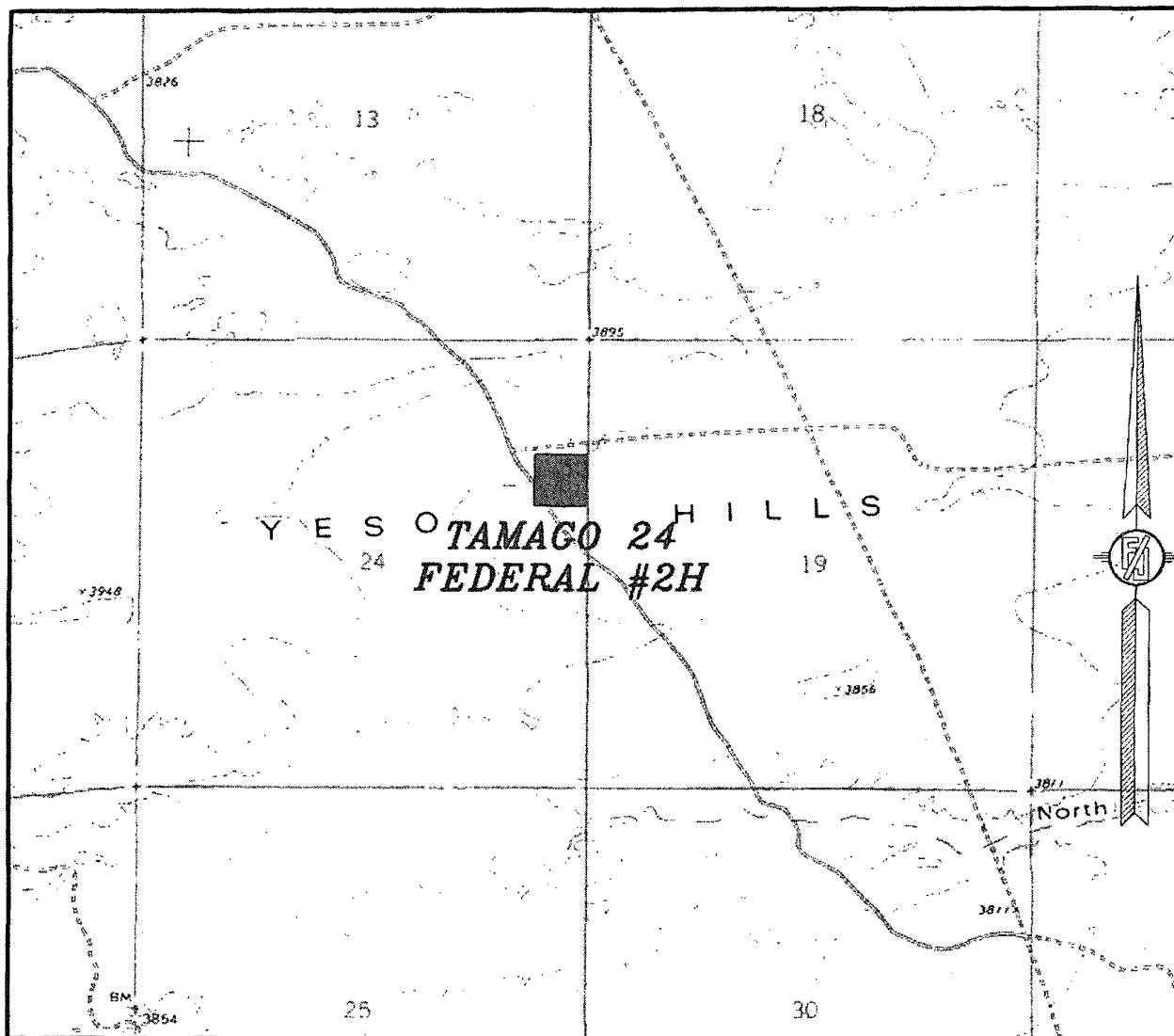
OCTOBER 29, 2010

SURVEY NO. 261-R2

MADRON SURVEYING, INC. 201 South Canal (505) 897-0530 CARLSBAD, NEW MEXICO

SECTION 24, TOWNSHIP 26 SOUTH, RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

## LOCATION VERIFICATION MAP



CONTOUR INTERVAL:  
RATTLESNAKE SPRING

NOT TO SCALE

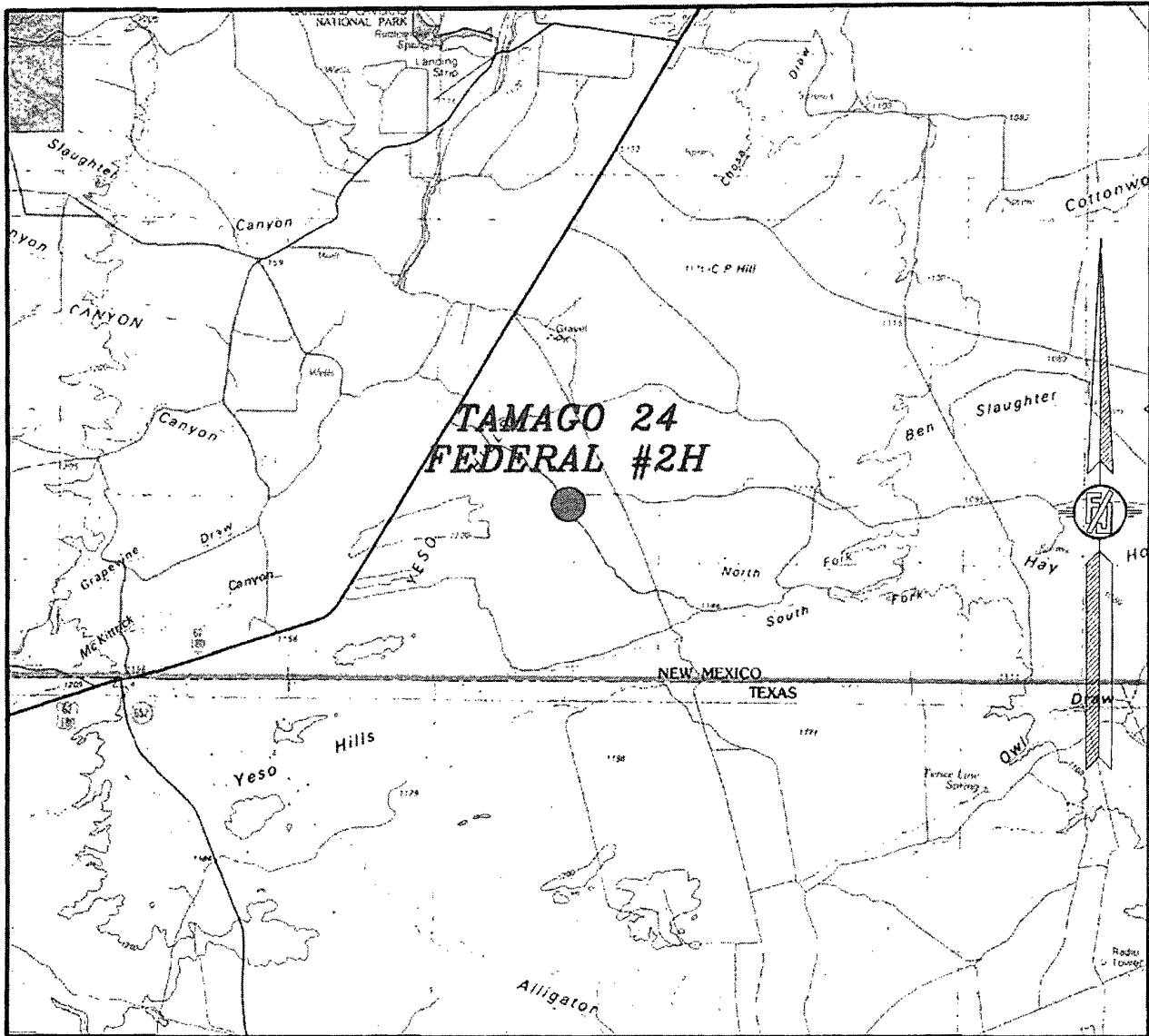
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RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 261-R2

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 587-5830 CARLSBAD, NEW MEXICO

SECTION 24, TOWNSHIP 26 SOUTH, RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
**VICINITY MAP**



NOT TO SCALE

COG OPERATING, LLC  
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EDDY COUNTY, STATE OF NEW MEXICO

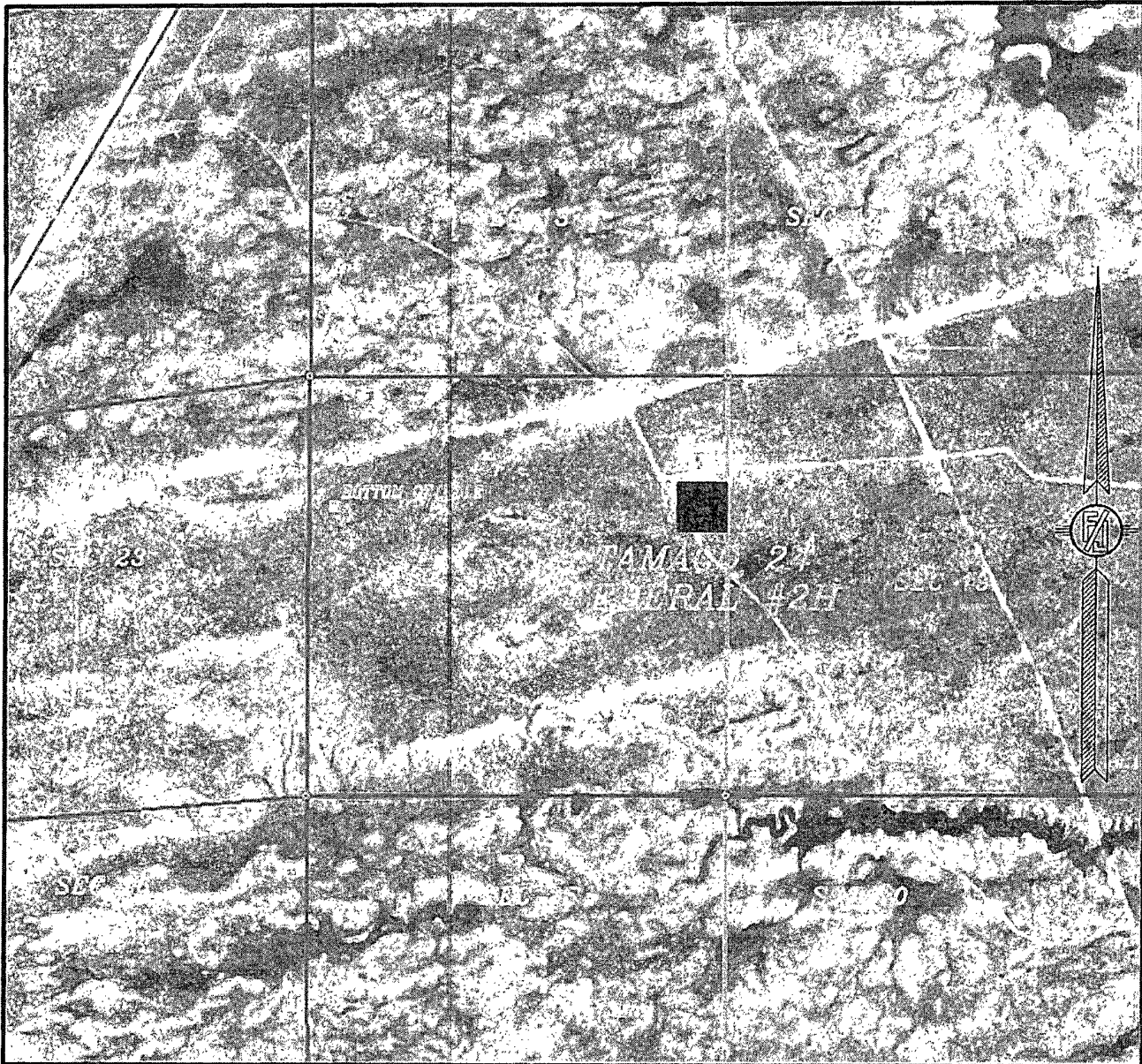
OCTOBER 29, 2010

SURVEY NO. 261-R2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 887-5830

SECTION 24, TOWNSHIP 26 SOUTH, RANGE 24 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

## AERIAL PHOTO



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
USDA - AUG, 2009

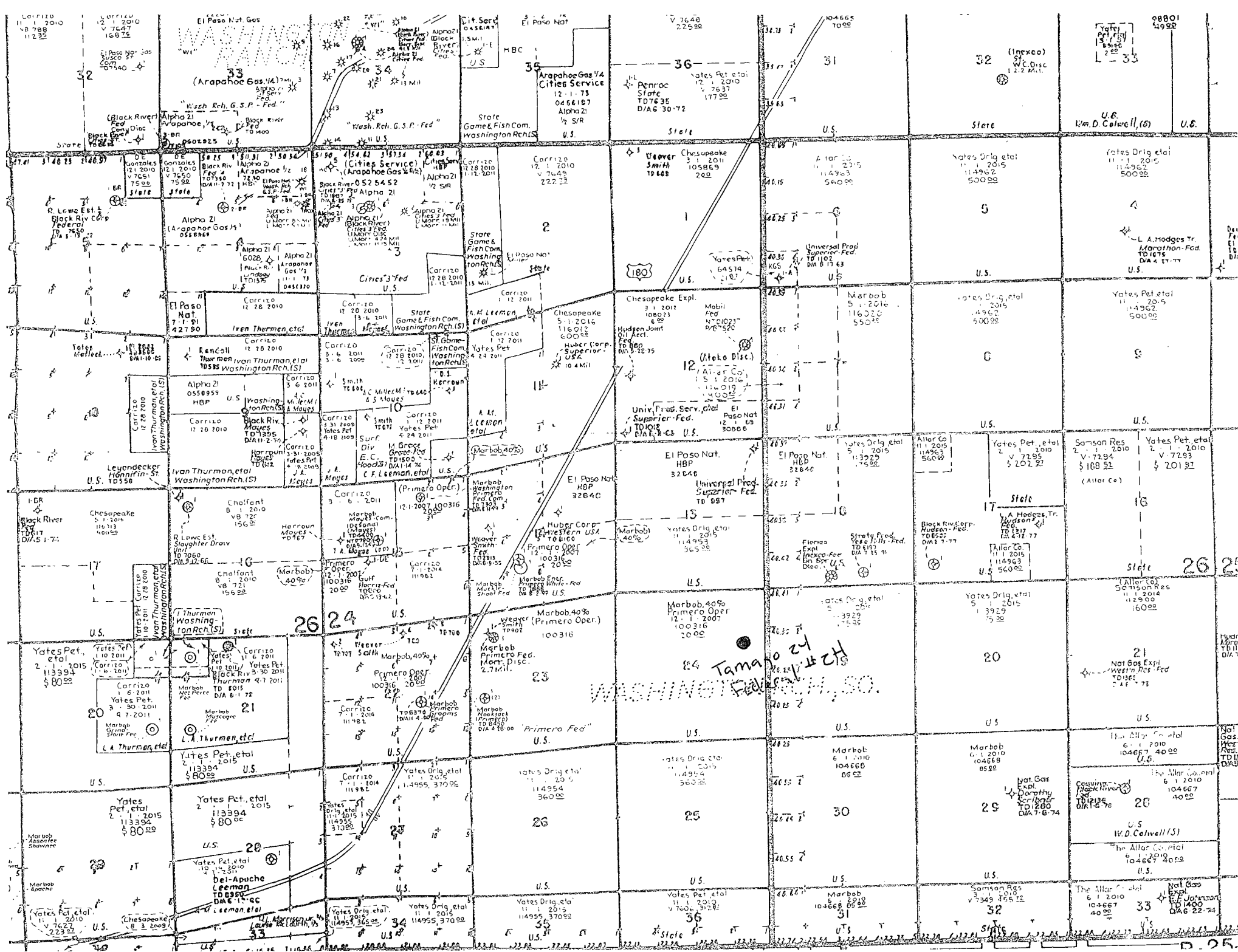
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OCTOBER 29, 2010

SURVEY NO. 261-R2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 687-5830





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4992

Yates  
11-1-2015  
114962  
500.00

32 (Inveco)  
W.C. Disc  
12.2 M.L.

U.S.  
Wm. D. Colwell (6)

Yates Orig. et al  
11-1-2015  
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L.A. Hodges Tr.  
Marathon Fed.  
10-1-1975  
DIA 4-17-77

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114962  
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COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

Well pads will be 300' X 300'  
with cellar in center of pad

