30-025-40154

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

**SL East 30 Federal Com #1H**
**Surf: 330' FSL & 1670' FEL, Sec 30**
**BHL: 330' FNL & 1670' FEL, Sec 30**
**T19S-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 Co.
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 Co Rd #126 (Lusk Plant Rd.) and Co. Rd. #126 (Maljamar) go South on Maljamar Road approx. 1.2 miles. Turn right and go West approx. 0.2 miles. Turn left and go South approx. 0.5 miles to a plugged and abandoned well. The location stake is 20 feet West of plugged and abandoned well marker.

## 2. PLANNED ACCESS ROAD:

Marbob will be using an existing access road. There is .5 of a mile of an old caliche road that will need to be upgraded.

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

A. In the event the well is found productive, the SL East 30 Federal Com #1H tank battery would be utilized and the necessary production equipment will be installed at the well site. A Site Facilities Diagram is shown on Exhibit 4. All flowlines 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.

C. If the well is productive, rehabilitation plans are as follows:
   i. Interim Reclamation is shown on Exhibit 4. The original topsoil from the well site will be used for interim reclamation. 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 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.

**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.
d. A small flare pit/berm will be located on the ??? side of location.

**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, 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 See Exhibit 4. Reserve pit will not be used on this location therefore no reclamation is needed. V-Door direction is not identified since we are utilizing Closed Loop System.

d. Topsoil will be stockpiled on the South side of the location until it is needed for interim reclamation described in paragraph above.

**10. SURFACE OWNERSHIP:**

The surface is owned by citizens of the United States of America and managed by the Bureau of Land Management.

**11.OTHER INFORMATION:**

a. The area surrounding the well site is grassland. The topsoil is very sandy loam in nature. The vegetation is moderately sparse with native prairie grass, with some mesquite bushes and various forbs and shrubs. 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 several miles of the location.

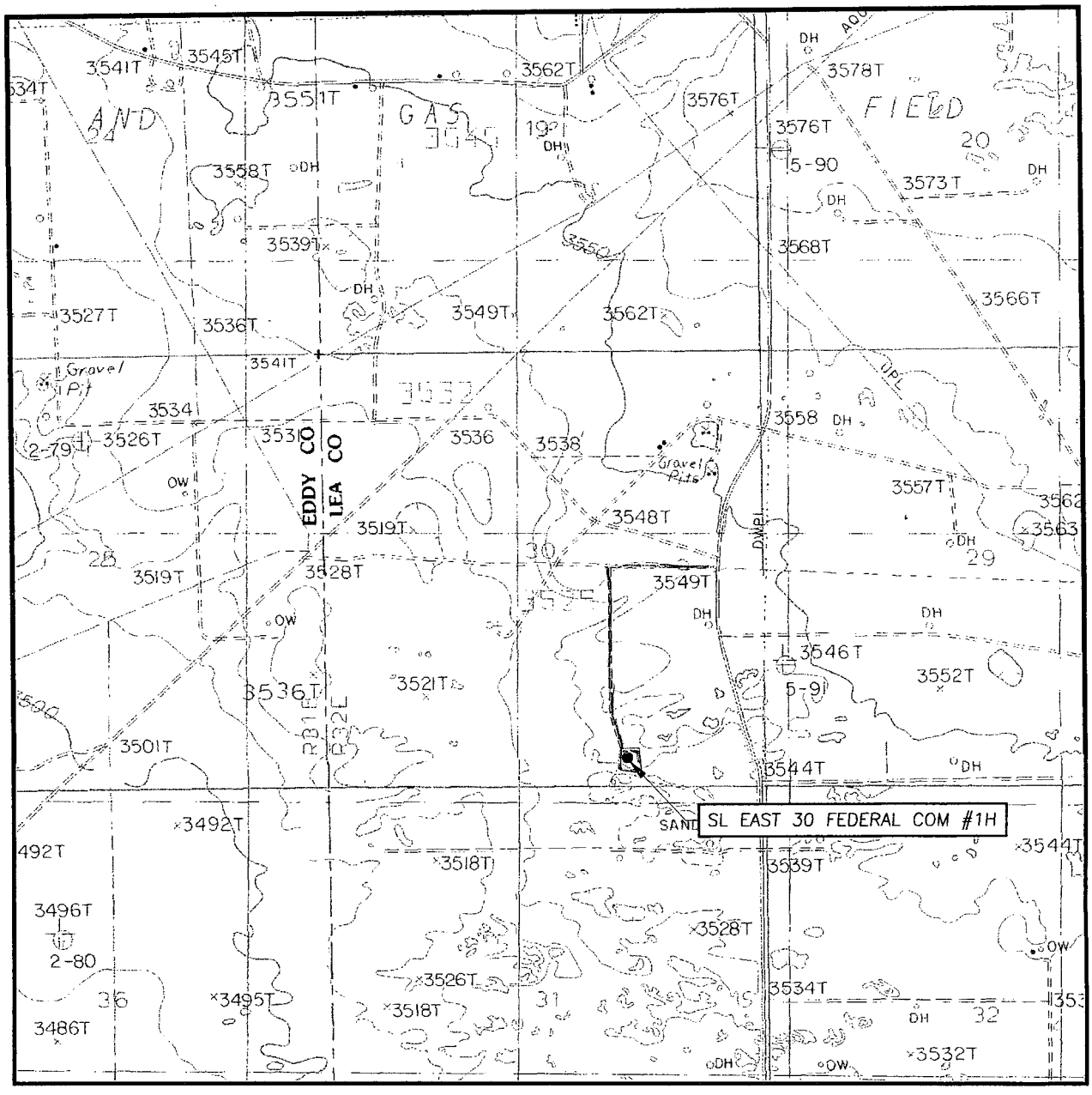
d. Cultural Resources issues will be taken care of by utilizing the PUMP III MOA.

**12. OPERATOR'S REPRESENTATIVE:**

A. Through A.P.D. Approval:
Rand French, Regulatory Coordinator
Concho Rresources
2208 West Main
Artesia, NM 88211-0227
Phone (575)748-6940
Cell (575) 513-1835

B. Through Drilling Operations
Sheryl Baker, Drilling Supervisor
Concho Resources
2208 West Main
Artesia, NM 88211-0227
Phone (575)748-6940
Cell (432)934-1873

# LOCATION VERIFICATION MAP




SCALE: 1" = 2000'

CONTOUR INTERVAL:
GREENWOOD LAKE, N.M. – 10'

SEC. 30 TWP. 19–S RGE. 32–E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FSL & 1670' FEL

ELEVATION 3545'

OPERATOR COG OPERATING, LLC

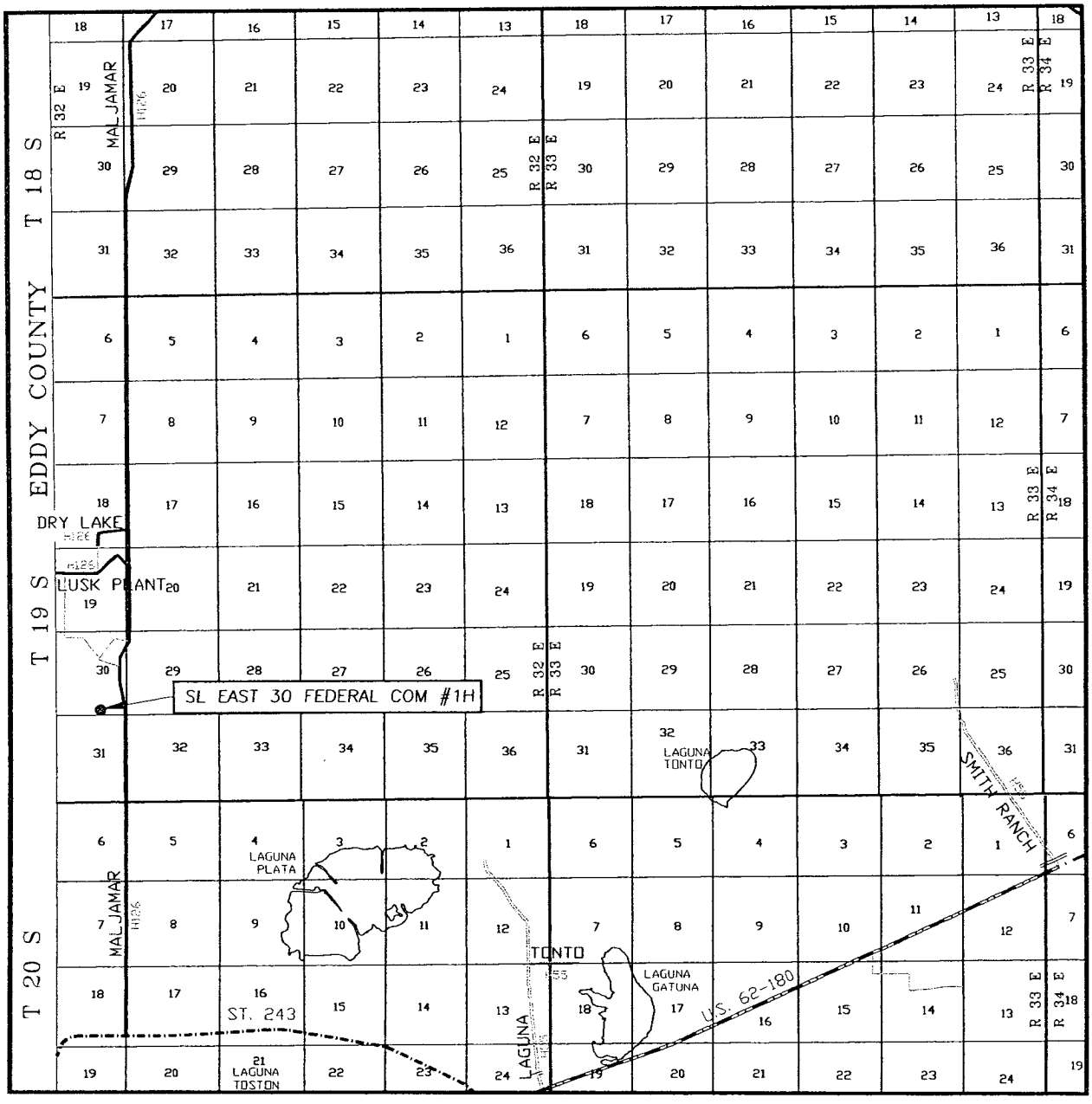
LEASE SL EAST 30 FEDERAL COM

U.S.G.S. TOPOGRAPHIC MAP
GREENWOOD LAKE, N.M.

Exhibit #2

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

# VICINITY MAP




SCALE: 1" = 2 MILES

SEC. 30 TWP. 19-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FSL & 1670' FEL

ELEVATION 3545'

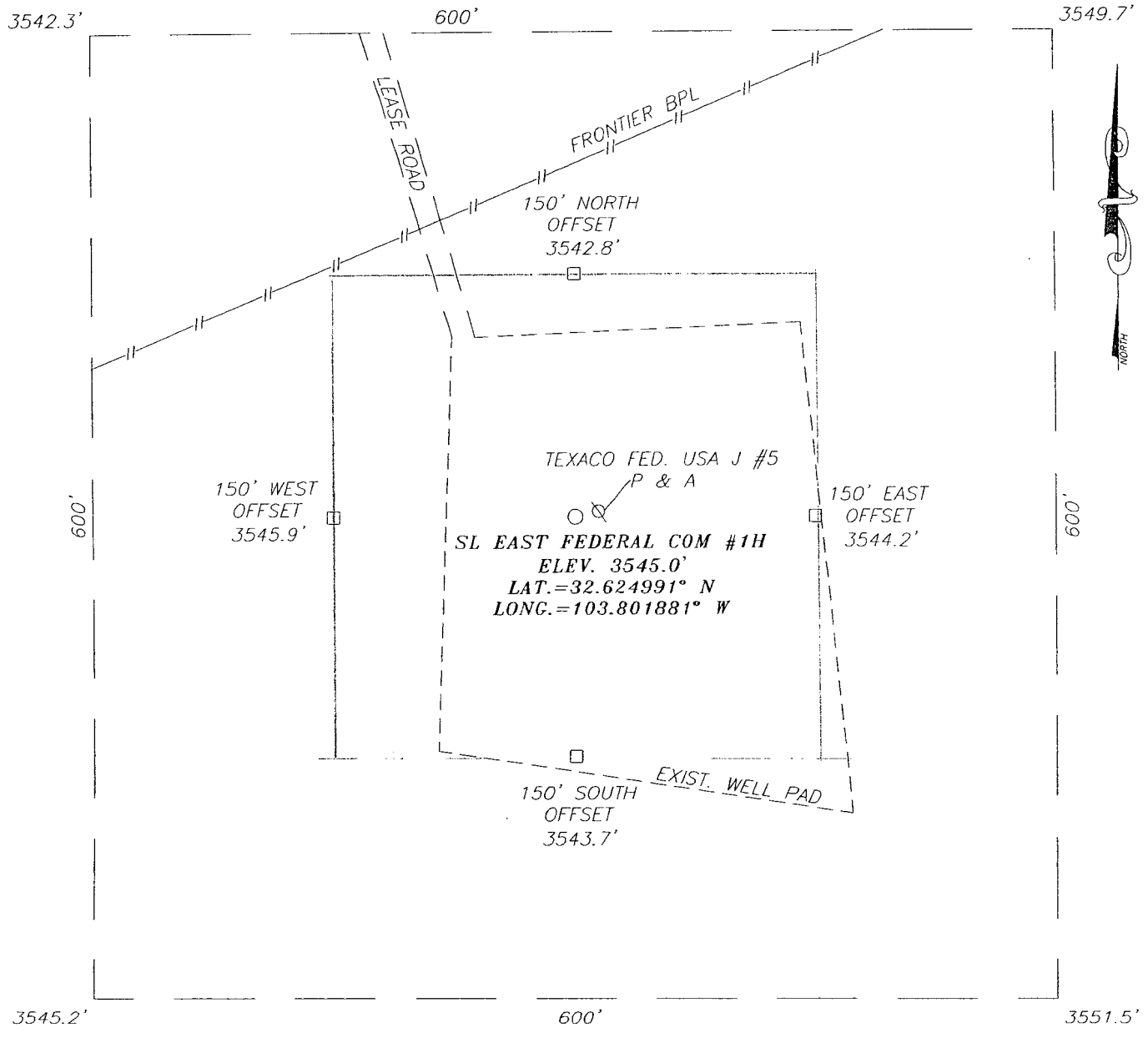
OPERATOR COG OPERATING, LLC

LEASE SL EAST 30 FED. COM


PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

# SECTION 30, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO




DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #126 (LUSK PLANT RD.) AND CO. RD. #126 (MALJAMAR), GO SOUTH ON MALJAMAR ROAD APPROX. 1.2 MILES. TURN RIGHT AND GO WEST APPROX. 0.2 MILES. TURN LEFT AND GO SOUTH APPROX. 0.5 MILES TO A PLUGGED AND ABANDONED WELL. THE LOCATION STAKE IS APPROX. 20 FEET WEST OF PLUGGED AND ABANDONED WELL MARKER.

100 0 100 200 Feet

Scale: 1"=100'


PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117


## COG OPERATING, LLC

SL EAST 30 FEDERAL COM #1H WELL
LOCATED 330 FEET FROM THE SOUTH LINE
AND 1670 FEET FROM THE EAST LINE OF SECTION 30,
TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

| | | |
|---|---|---|
| Survey Date: 12/3/10 | Sheet 1 of 1 Sheets | |
| W.O. Number: 10.11.1691 | Dr By: LA | Rev 1:N/A |
| Date: 12/7/10 | 10111691 | Scale: 1"=100' |

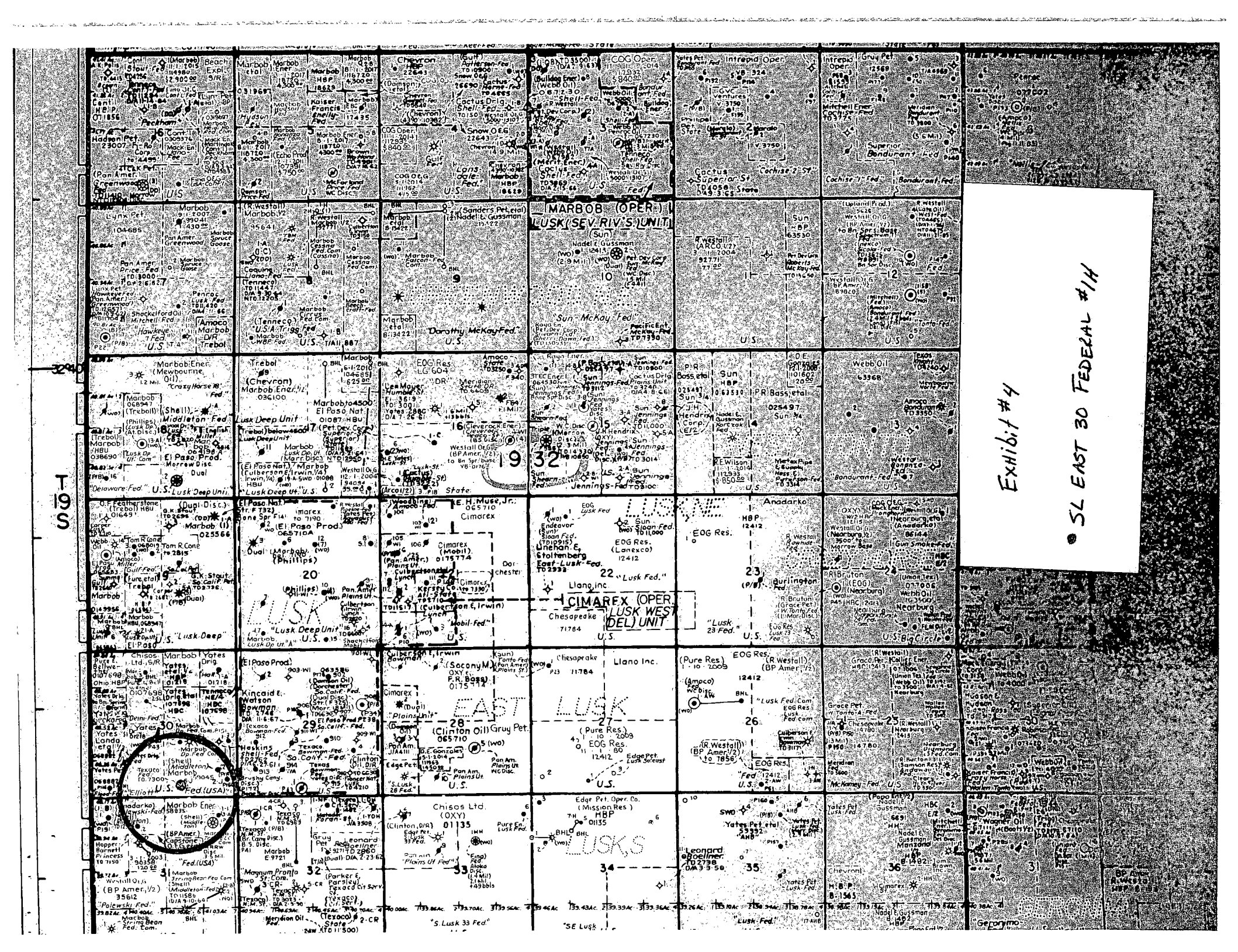


Exhibit #4
SL EAST 30 FEDERAL #1H
MARBOB (OPER.)
LUSK (SEV RIV S) UNIT
CIMAREX (OPER.)
LUSK WEST (DEL) UNIT
LUSK
EAST
LUSK
LUSKS
T 19 S
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36