

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Stevens Operating Corporation

NOV 7-89

3. ADDRESS OF OPERATOR

P.O. Box 2408, Roswell, New Mexico 88202

O. C. D.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface 1980' FNL Unit "E"  
660' FWL  
At proposed prod. zone

SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT. 660' FWL  
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5800'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3668.1' GR

22. APPROX. DATE WORK WILL START\*

November 6, 1989

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	23.6 24	900'	Circulate to sur. approx. 575 sacks
7 7/8	5 1/2	17.0	5800'	600' above Abo approx 550 sacks
				65.35% Poz

Well will be drilled to a total depth of 5800' and all potential zones evaluated. If Commercial Production is indicated, well will be selectively perforated and stimulated. Gas from this well has not been dedicated.

Attached are:

1. Surface Use Plan
2. Well Locations & Dedication Plat
3. Sketch of BOP
4. Sundry Notice regarding 8 5/8" pipe and testing of BOP

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bel Lamm TITLE Production Supervisor DATE 10/23/89

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY S/Phil Kirk TITLE Area Manager DATE NOV 2 1989

CONDITIONS OF APPROVAL, IF ANY

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT

\*See Instructions on Reverse Side

Under 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the



RECEIVED OCT 11 1989

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

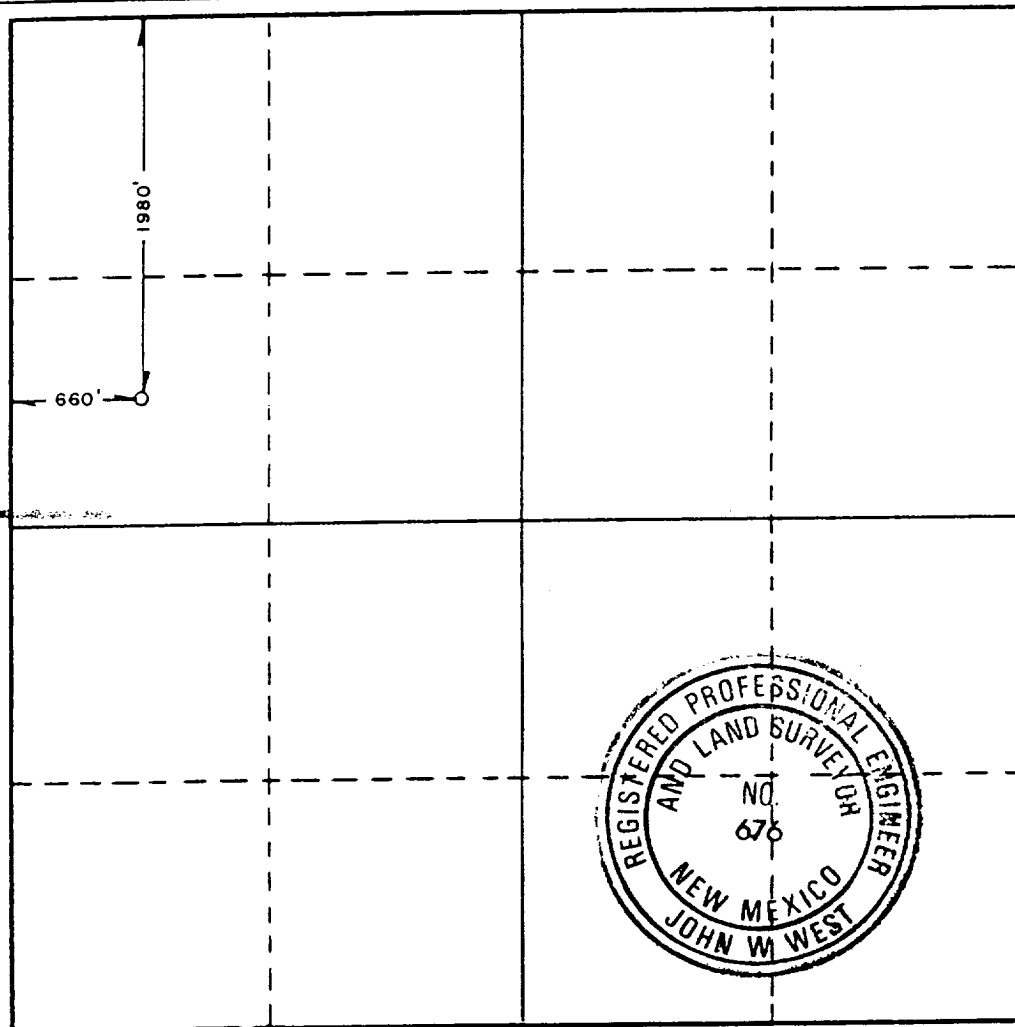
Operator <b>STEVENS OPERATING COMPANY</b>		Lessee <b>O'CONNEL FEDERAL COM.</b>		Well No. <b>1</b>
Unit Letter <b>E</b>	Section <b>15</b>	Township <b>6 SOUTH</b>	Range <b>26 EAST</b>	County <b>CHAVES</b>
Actual Footage Location of Well: <b>1980</b> feet from the <b>NORTH</b> line and <b>660</b> feet from the <b>WEST</b> line				
Ground Level Elev. <b>3668.1'</b>	Producing Formation <b>Montoya</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitized

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Robert C. Farnsworth*

Name

Production Supervisor

Position

Stevens Operating Corp

Company

9/18/89

Date

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

DECEMBER 3 & 4, 1985

Registered Professional Engineer and/or Land Surveyor

*John W. West*

Certificate No. JOHN W. WEST,

676

RONALD J. EIDSON,

3239



## SUPPLEMENTAL DRILLING DATA

STEVENS OPERATING CORPORATION  
WELL #1 O'CONNELL FEDERAL COM.  
1980' FNL, 260' FWL, SEC. 15, T-6S, R-26E  
CHAVES COUNTY, NEW MEXICO

1. SURFACE FORMATION: Alluvium

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

San Andres	620'	P-1	1080'
Glorieta	1760'	Yeso	3100'
Abo	3750'	Montoya or Granite	5800'

3. ANTICIPATED POROSITY ZONES:

Water	700' - 800'
Oil	1000' - 1670'
Gas	3750' - 4050'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
8 5/8"	0- 900'	<sup>24</sup> <del>23.0</del> #	K-55	STC	New
5 1/2"	0-5800'	17.0#	J-55	STC	New

5. SURFACE CONTROL EQUIPMENT:

A double Ram-type preventer. (2000# WP) A Sketch of BOP stack is attached.

6. CIRCULATING MEDIUM:

0 - 900'	Fresh water mud with gel added if needed.
3550' - 5800'	Mud up to 200' above Abo, salt water mud, conditioned as necessary for control of viscosity and water loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

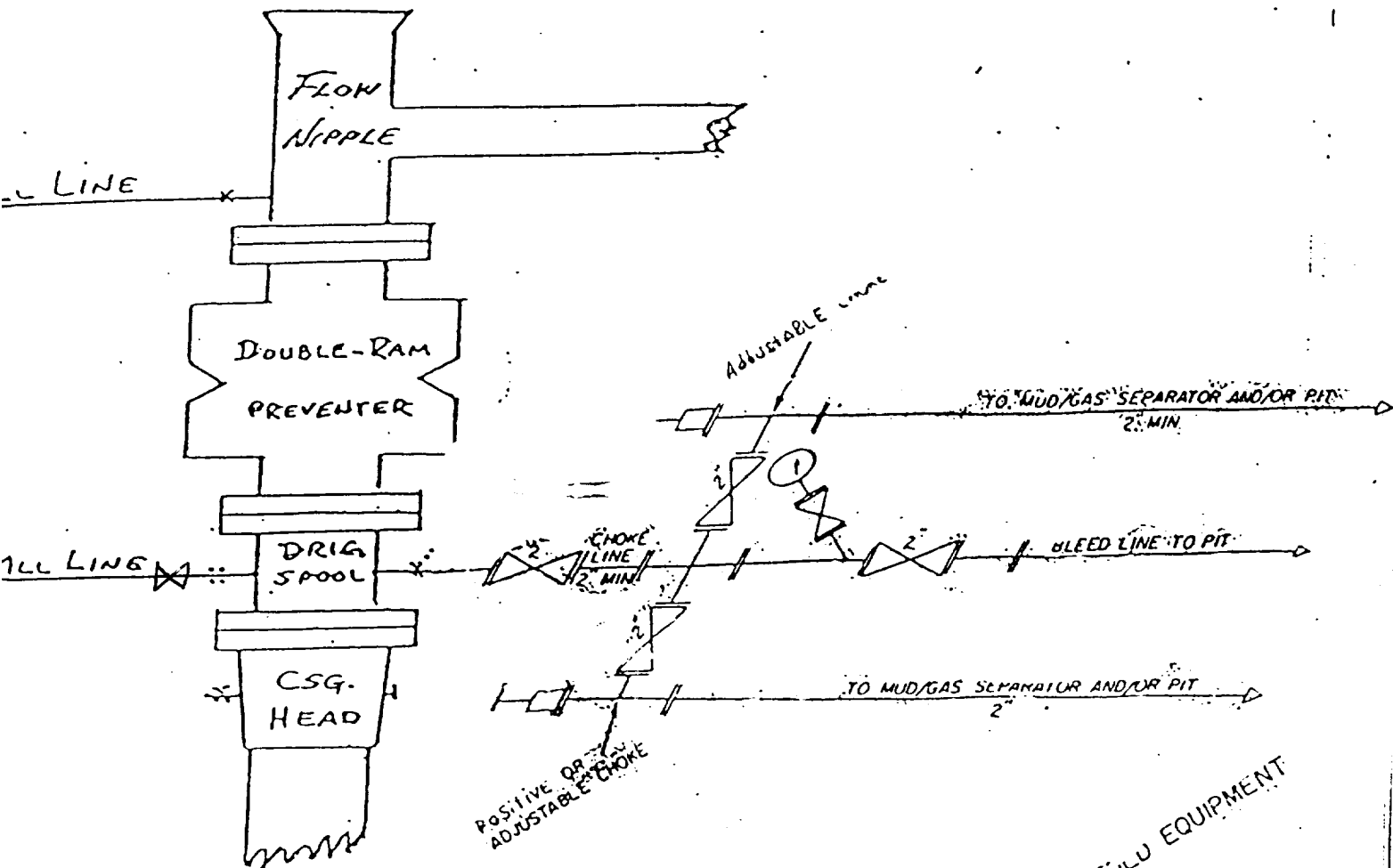
8. TESTING, LOGGING AND CORING PROGRAMS: Coring and testing may be performed in zones of interest. Compensated Neutron-Formation Density w/Gamma Ray Log. 0-TD Dual Lateral Log Shoe to TD. The BOP & pipe will be tested to 1000# prior to drilling out from under the 8 5/8".

9. ABNORMAL PRESSURE, TEMPERATURES OR GASES: Not Anticipated.

10. ANTICIPATED DATES: It is planned that drilling operations will commence about November 6, 1989. Duration of drilling and completion operations should be 20 to 40 days.



# E O P & CHOKE MANIFOLD



2M CHOKE MANIFOLD EQUIPMENT

SURFACE USE PLAN  
FOR  
DRILLING, COMPLETING AND PRODUCTION

STEVENS OPERATING CORPORATION  
Well #1 O'Connell Federal Com.  
1980' FNL 260' FWL, Section 15, T-6S, R26E  
CHAVES COUNTY, NEW MEXICO

LOCATED: 28.0 miles northeast of Roswell, NM

FEDERAL LEASE NUMBER: NM 53957-A

LEASE ISSUED: September 1, 1982

RECORD LESSEE: Verna S. O'Connell

OPERATOR'S AUTHORITY: Designation of Operator from Lessee

BOND COVERAGE: Donald G. Stevens Statewide Bond

ACRES IN LEASE: 320 (Communitized)

SURFACE OWNERSHIP: U. S. Govt.

WELL SPACING: 320 acre spacing for Montoya gas

EXHIBITS:

- A. Portion of Chaves County Road Map
- B. Portion of Cottonwood Draw Topo Map
- C. Portion of Lease Map
- D. Sketch of Well Layout
- E. Surface Agreement



## Road Log to Proposed Drillsite

Starting Point is 16 miles northeast of Roswell, New Mexico on U. S. 70 at mile post 352.5. This point is at the Old Acme School House ruin which is 14.12 miles east of U. S. 285.

- 0.0 Turn left (North) through the cattleguard on Aztec Road and proceed on county road in a northerly direction for a distance of 15.5 miles.
- 15.5 Turn left (West) following the fence line for a distance of 1.25 miles.
- 16.75 Turn right (North) through cattleguard, proceed in a northerly and then westerly direction for a total of 1 mile.
- 17.75 O'Connell Fed Com #1 drillsite.

1. Existing Road: Existing roads lead to the proposed drillsite are shown on Exhibits "A" and "B". The existing road from road log 15.5 to 16.75 will be upgraded. The existing road from road log 16.75 to 17.75 will be surfaced with a minimum of 4" of caliche.

2. Proposed New Road: Proposed new access road will be 1.0 miles long. The proposed route which will originate at mileage 16.75 on the road log & terminate at the northeast corner of the proposed drillsite. See Exhibit "B"

- A. Width: 14 feet with 30' ROW.
- B. Surfacing Material: Road will be surfaced with a minimum of 4" of caliche.
- C. Road Design: At mileage point 16.75, to mileage point 17.75 culverts will be installed under access road where necessary; filling in the road around it to the same elevation.
- D. Topsoil: It will be removed from the location and stockpiled on north edge of location.
- E. Pit cuttings: Materials removed from the reserve pit area will be used for fill on the west side of location.



3. Right-of-Way - Application for right-of-way has been determined that the appropriate category is category II. A copy of the determination will be included in the APD for right-of-way approval.
4. Location of existing facilities:
  - A. Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "C".
5. Location of Proposed Facilities:
  - A. If the proposed well is productive, production and storage facilities will be located on the new well pad. See Exhibit "F".
  - B. A Gas flowline will be run in a westerly direction above ground for a distance of 400'. At this point it will be buried a minimum of 12" to West Section Line (260'). See Exhibit "F".
6. Location and type of water supply:
  - A. Water for leasehold operation will be purchased from the nearest commercial source operated by Mark Cooper.
  - B. The water source is 4.0 miles to east and south of the drillsite.
7. Source of Construction materials:
  - A. Where possible, material-in-place will be used for construction of the road & well pad. Additional material will be obtained from the nearest commercial source owned by Mr. Mark Cooper. The caliche pit is located in the W/2 of Section 10, T-6S, R-26E.
8. Methods of handling waster disposal:
  - A. Drill cuttings will be disposed of in the drilling pits.
  - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
9. Ancillary Facilities: None Anticipated.
10. Wellsite Layout:
  - A. The wellsite has been surveyed and a 500'x 500' area has been staked & flagged.



B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "F".

C. A cut & fill plat are shown on Exhibit "D".

11. Plans for Restoration:

A. After completion of drilling and/or completion operations, all equipment and other materials not needed for operation will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible.

12. Production facilities:

A. The production facilities and flowline are shown on Exhibit "F".

13. Other Information:

A. Topography: The undisturbed wellsite elevation is 3668 GR.

B. Soil: Top soil is gypie loam situated at the base of a 75 foot high cliff.

C. Flora & Fauna: The vicinity surrounding the drillsite is semi-arid dessert range land. Flora consist primarily of mesquite, salt cedar and range grasses interspersed with other desert plants. No wildlife was observed; however, fauna for this type of habitat also includes lizards, snakes, rodents, skunks, coyotes, dove, quail, and other small birds.

D. Ponds & streams: The Pecos River is located .5 miles to the northeast of the drillsite.

E. Residences and other structures: Nearest occupied dwelling is 4 miles to the southeast.

F. Archaeological, historical and other cultural sites: An archaeological reconnaissance of the well pad and new road area were made by the Agency for Conservation Archaeology and forwarded directly to the Bureau of Land Management.

G. Land use: Grazing and occasional hunting.

H. Surface owner: U. S. Government.



14. Operator Representative:


Representative responsible for assuring compliance with the approved surface use plan:

Bob Farmer  
Production Superintendent  
1250 United New Mexico Plaza  
Roswell, New Mexico 88201  
Office Phone 505-622-7273  
Home Phone 505-625-9376

15. Certification:

I 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 statement made in the 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 Stevens Operating Corporation and its 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.

Date 10/23/89



Bob Farmer  
Stevens Operating Corporation



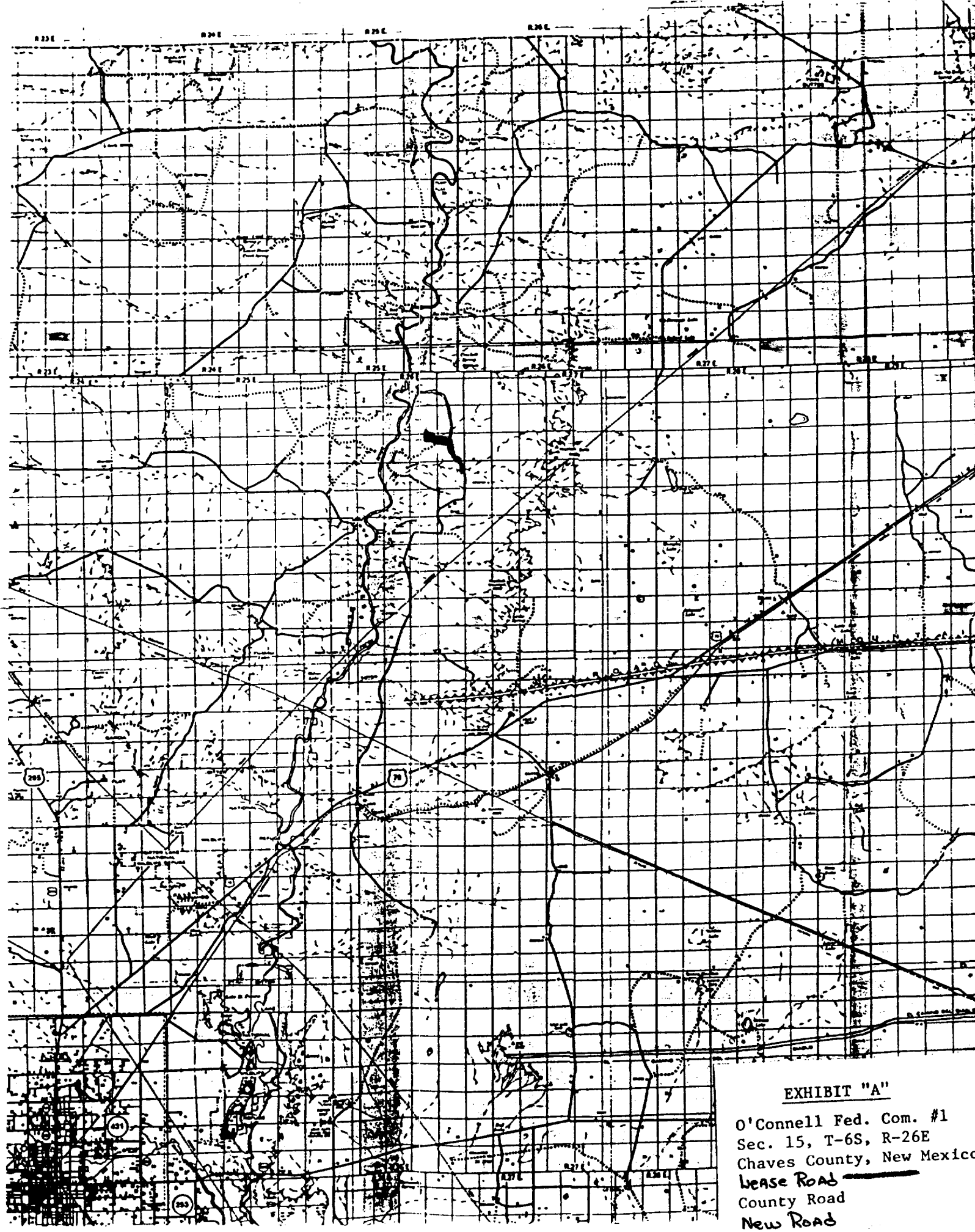
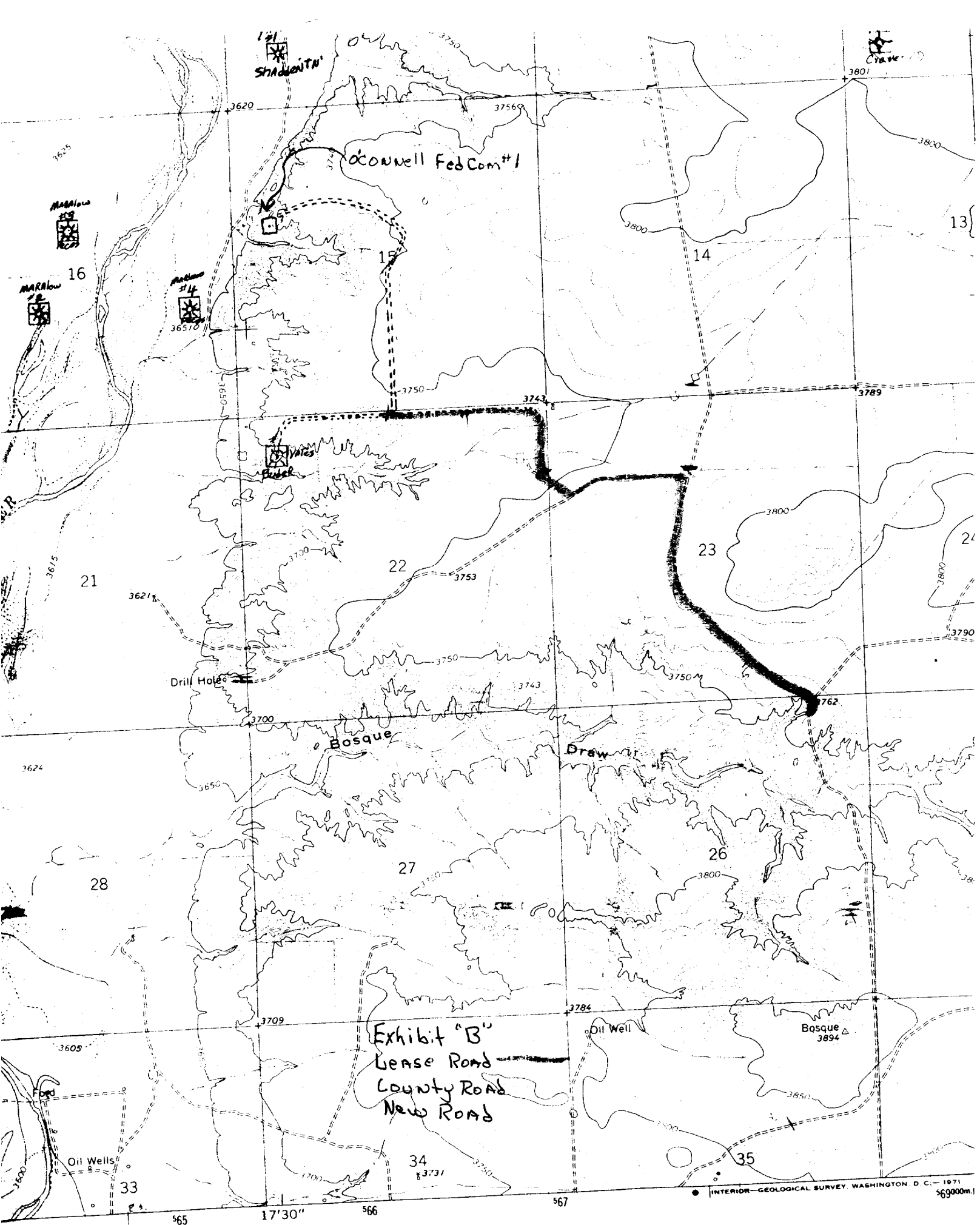


EXHIBIT "A"

O'Connell Fed. Com. #1  
Sec. 15, T-6S, R-26E  
Chaves County, New Mexico  
Lease Road  
County Road  
New Road







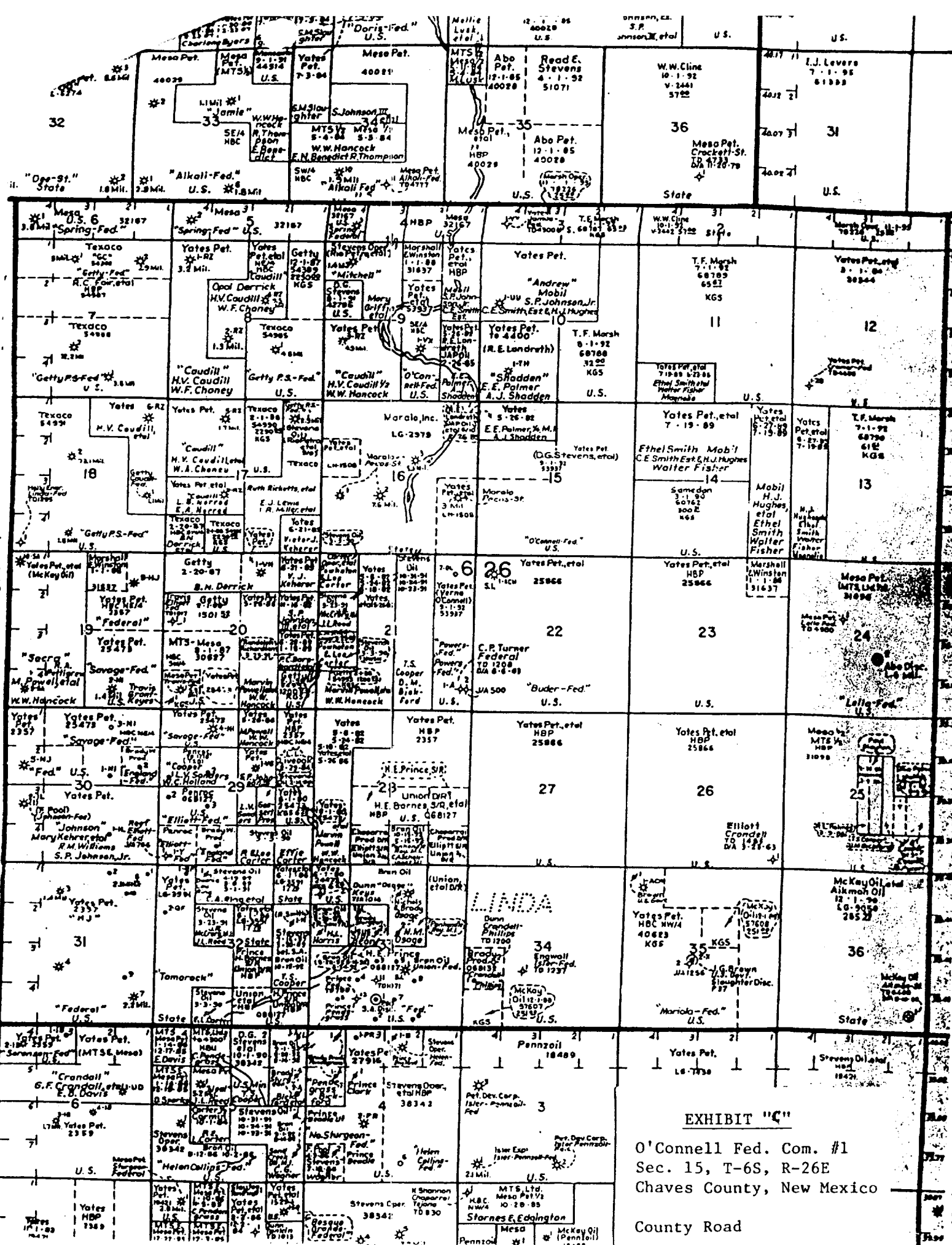
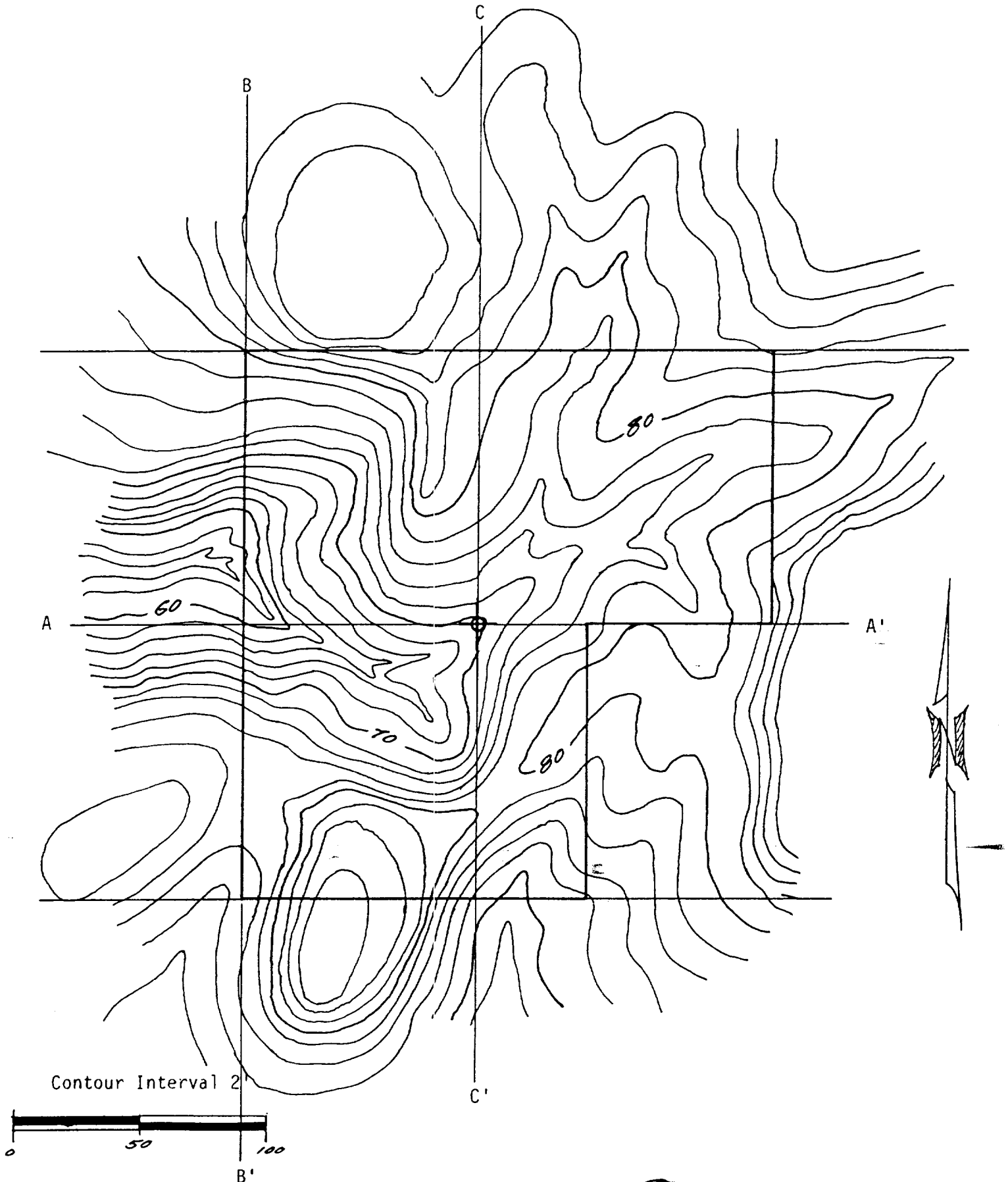


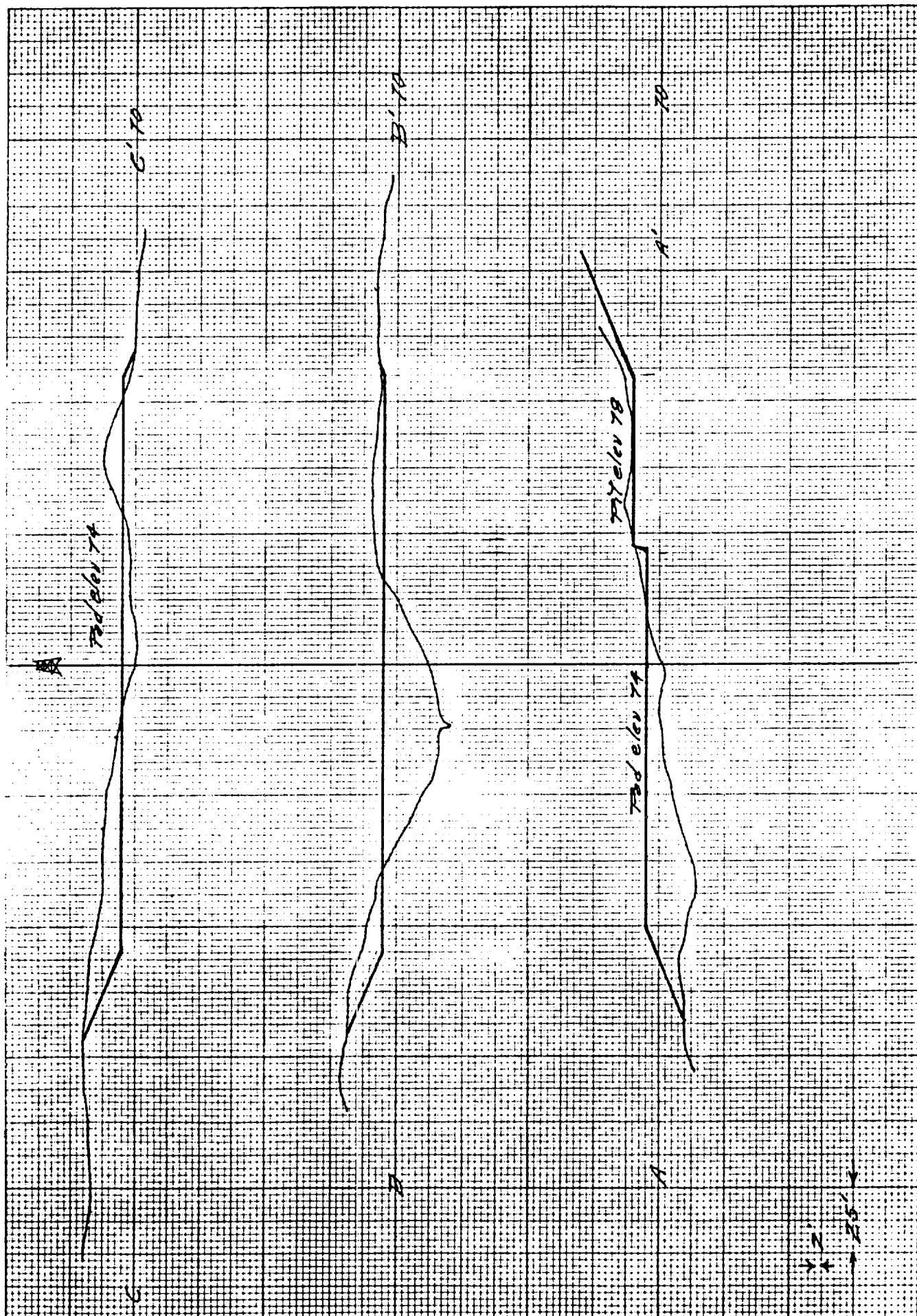


Exhibit "D"

SURFACE TOPOGRAPHY  
O'Connell Federal Well No. 1  
1980 FSL 660 FWL, Sec. 15  
T6S, R26E, NMPM, Chaves Co. NM









SURFACE AGREEMENT FOR UNIT E - SEC. 15, T-6-S, R-26-E

Records show that the above-described tract of land is owned as follows:

Surface:	U. S. Government
Minerals:	U. S. Government
Oil & Gas Leases:	Yates Petroleum Corporation, Stevens Oil Company
Designation of Operator:	Stevens Operating Corporation



Bob Farmer  
STEVENS OPERATING CORPORATION

EXHIBIT "E"

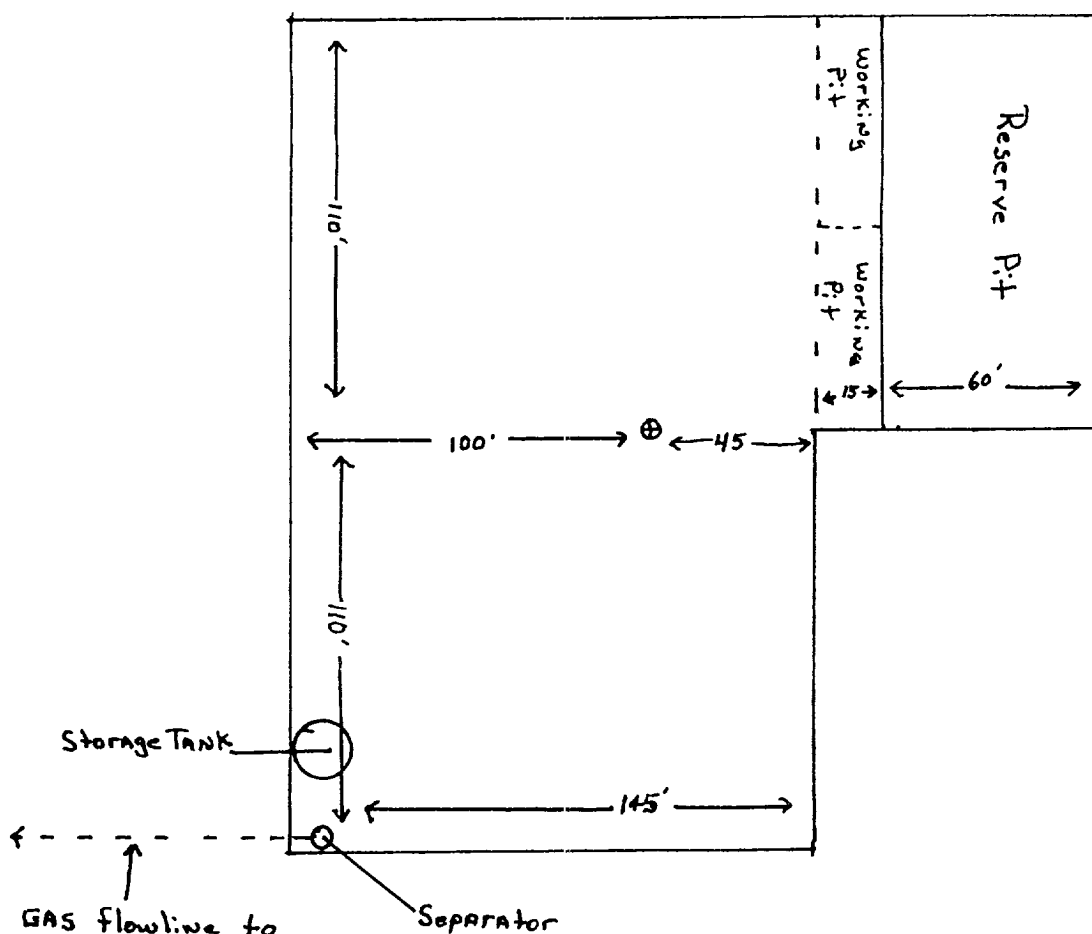


Exhibit "F"

GAS flowline to be above ground for a distance of 400'. At this point it will be buried to the section line (260').