

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-075-24104  
5. LEASE DESIGNATION AND SERIAL NO.

SF 077123

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Warren Com

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 12, T28N, R9W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

## 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

Tenneco Oil Company

## 3. ADDRESS OF OPERATOR

720 S. Colorado Blvd., Denver, CO 80222

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

At surface

p 1120' FSL, 1120' FEL

At proposed prod. zone

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

6.2 miles SE of Blanco, NM

## 15. DISTANCE FROM PROPOSED\*

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

## 16. NO. OF ACRES IN LEASE

1,349.88

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL  
312.2818. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6790

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5738 GR

## 22. APPROX. DATE WORK WILL START\*

ASAP

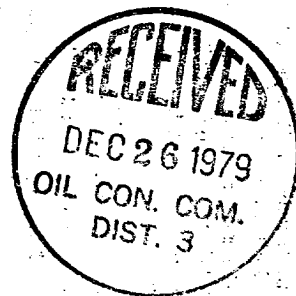
## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	9 5/8" new	36#, K-55	300'	Circulate to surface
8 3/4"	7" new	23#, K-55	3500'	Circulate to surface
6 1/2"	4 1/2" new	10.5#, 11.6#	6790'	Circulate through liner hanger

SEE ATTACHED

THE GAS IS DEDICATED



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

TITLE Staff Production Analyst

DATE December 17, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Bruh

NWU R-1814

\*See Instructions On Reverse Side

111000

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.

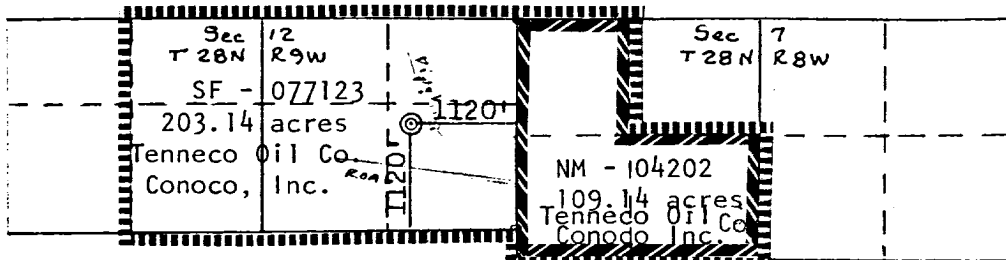
Operator <b>TENNECO OIL COMPANY</b>			Lease <b>WARREN COM</b>		Well No. <b>3</b>
Unit Letter <b>P</b>	Section <b>12</b>	Township <b>28N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1120</b> feet from the <b>South</b> line and <b>1120</b> feet from the <b>East</b> line					
Ground Level Elev: <b>5738</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage: <b>312.28</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 Communitization

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.



SCALE: 1"=2000'

CERTIFICATION

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

Name **M. L. Freeman**  
Position **Staff Production Analyst**  
Company **Tenneco Oil Company**  
Date **December 17, 1979**

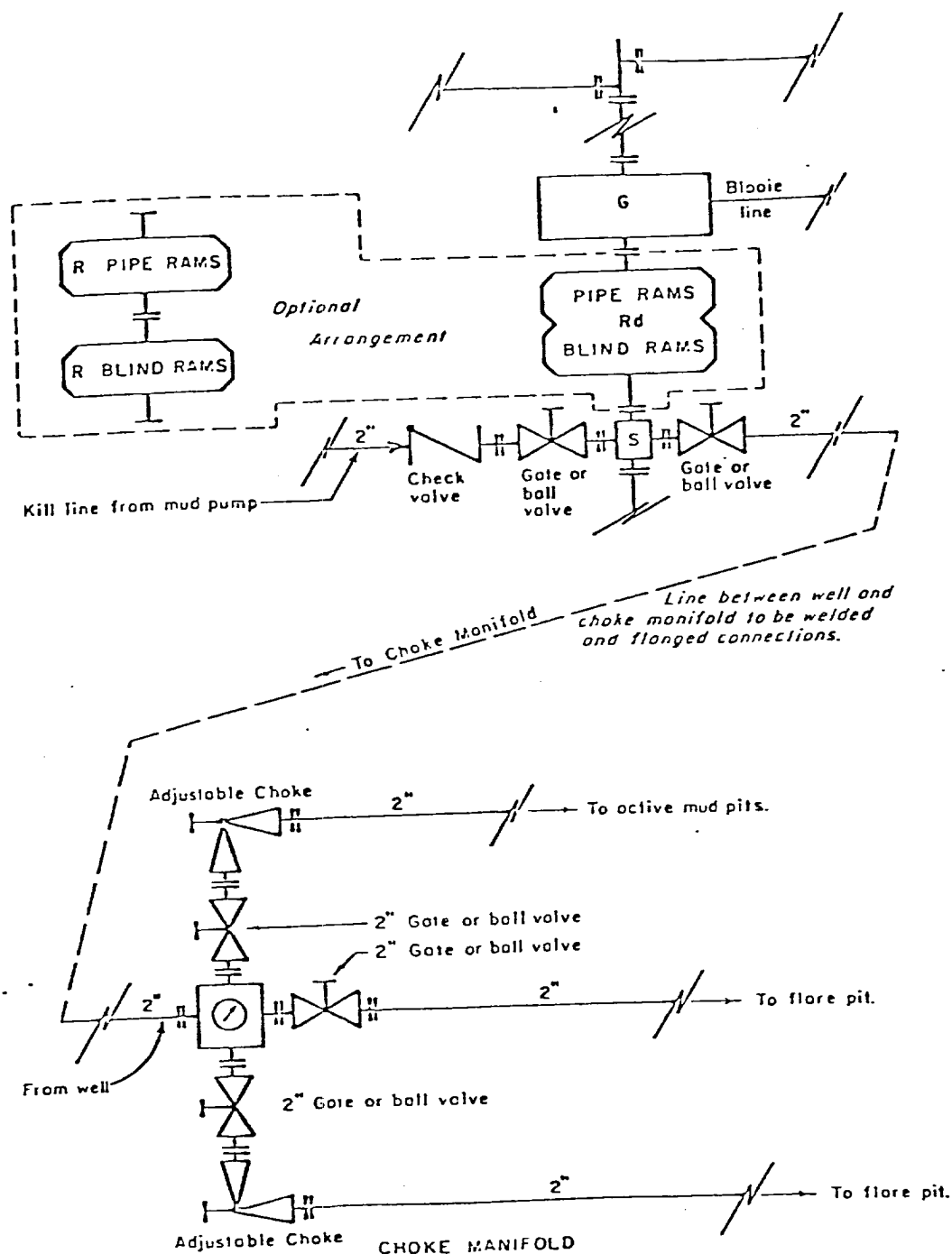
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **September 14, 1979**  
Registered Professional Engineer and Land Surveyor  
**Fred B. Kerr Jr.**  
Certificate No. **3950**

1. The geological name of the surface formation is Tertiary San Jose
- 2&3. Estimated Formation Tops:

Ojo	1100' (water)	Mancos	4459	4459'
Pictured Cliffs	2123' (Gas)	Gallup		5563'
Cliffhouse	3803' (Gas)	Greenhorn		6323'
Menefee	3950' (Gas)	Dakota "A"		6428' (Gas)
Point Lookout	4389' (Gas)	T.D.		6790'

4. Drill a 13 3/4" hole to 300<sup>+</sup>. Run 9 5/8", 36#, K-55 ST&C casing to 300<sup>+</sup> and circulate cement to surface using 2% CaCl<sub>2</sub> in cement. Drill out shoe and reduce hole to 8 3/4". Drill 8 3/4" hole to 3500<sup>+</sup>. Run 7", 23#, K-55 ST&C casing to 3500<sup>+</sup> and circulate cement to surface. Drill out of 7" with 6 1/4" bit using gas as circulating fluid. Drill to total depth. If productive, run 4 1/2" casing. Cement in one stage and bring cement to above Mesaverde Zone. If nonproductive, P&A as per U.S.G.S. requirements.
5. Blowout Preventors:  
Hydraulic double ram, 10". One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills, and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location.)
- |                       |  |
|-----------------------|--|
| 0-300 <sup>+</sup>    | Spud mud                                   |
| 300-3500 <sup>+</sup> | Low solids fresh water mud. No WL control. |
| 3500-T.D.             | Gas.                                       |
7. Auxiliary Equipment:
- Kelly cock will be in use at all times.
  - Stabbing valve to fit drill pipe will be present on floor at all times.
  - Mud monitoring will be visual. No abnormal pressures are anticipated.
  - Floats at bits.
  - Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:
- No cores will be taken. Samples will be taken as directed by wellsite geological engineer. GR/FDC/CNL caliper from T.D. to base of Mesaverde. GR/SP/SN induction from T.D. to surface casing.
9. No abnormal pressures or temperatures are anticipated.
10. The drilling of this well will take approximately 10 days.
11. Your office (telephone ) will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.



- All equipment to be 3,000 psi working pressure except as noted.
- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- G Rotating head 150 psi working pressure minimum

#### ARRANGEMENT C

TENNECO OIL COMPANY  
ROCKY MOUNTAIN DIVISION  
REQUIRED MINIMUM  
BLOWOUT PREVENTER AND  
CHOKE MANIFOLD

J. MAGILL 10-26-78 EVI

1. Existing Roads

- A. Proposed Well Site Location: The proposed wellsite location was surveyed and staked by a registered land surveyor and is located 1120' FSL and 1120' FEL Sec. 12, T28N, R9W, San Juan County, New Mexico. (See Exhibit I acreage dedication plan).
- B. Planned Access Route: Begins in Blanco, New Mexico and goes southeast to 5 Mile Crossing and crosses Largo Canyon on a blacktop road. Turn southeast at fork in road and proceed for approximately 2 miles on blacktop. Turn southwest into wellsite location on approximately 500' of newly constructed road.
- C. Access Road Labelled:
- Color Code: Red - Improved Surface  
Blue - New Access Road
- D. Not applicable - the proposed well is a development well.
- E. The proposed well is a development well. See Exhibit II for existing roads within a one mile radius.
- F. Existing Road Maintenance or Improvement Plan:  
The existing roads will require minimal maintenance.

2. Planned Access Roads

(All roads are existing roads.)

- A. Width:  
The average width of the road is twenty feet.
- B. Maximum Grades:  
Maximum grades will 6%.
- C. Turnouts:  
There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design:  
The road is center crowned to allow drainage. The road is flat primarily.
- E. Culverts Use Major Cuts and Fills:  
No culverts or major cuts or fills will be required.
- F. Surfacing Material:  
Native soil has been wetted, bladed and compacted to make the road surface, which is existing.

2. Planned Access Roads (Cont'd)

- G. Gates, Cattleguards, Fence Cuts:  
No gates, cattleguards or fences will be needed.
- H. New Roads Centerlined Flagged:  
Existing Roads.

3. Location of Existing Wells

The proposed well is a development well. Exhibit III shows existing wells within a one mile radius.

- A. Water Wells: None
- B. Abandoned Wells: None
- C. Temporarily Abandoned Wells: None
- D. Disposal Wells: None
- E. Drilling Wells: See Exhibit III
- F. Producing Wells: See Exhibit III
- G. Shut-In Wells: None
- H. Injection Wells: None
- I. Monitoring or Observation Wells: None.

4. Location of Existing and/or Proposed Facilities

- A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- (1) Tank batteries - None
- (2) Production facilities - Exhibit III
- (3) Oil Gathering Lines - None
- (4) Gas Gathering Lines - None
- (5) Injection Lines - None
- (6) Disposal Lines - None

- B. New facilities in the event of production:

- (1) New facilities will be within the dimensions of the drill pad.
- (2) Dimensions are shown on Exhibit IV.
- (3) Construction Materials/Methods:  
Construction materials will be native to the site.  
Facilities will consist of a well pad.
- (4) Protection of Wildlife/Livestock:  
Facilities will be fenced as needed to protect wildlife or livestock.

4. Location of Existing and/or Proposed Facilities (Cont'd)

B. New facilities in the event of production: (cont'd)

(5) New facilities will consist of a wellhead, tank and production unit.

C. Rehabilitation of Disturbed Areas:

Following the completion of construction, those areas required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with surrounding topography per BLM recommendations.

5. Location and Type of Water Supply

A. Location and type of water supply:

Water will be hauled from a private source.

B. Water Transportation System:

Water trucks will be used.

C. Water wells:

N/A.

6. Source of Construction Materials

A. Materials:

Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.

B. Land Ownership;

The planned site and access road is on federal land administered by the Bureau of Land Management.

C. Materials Foreign to the Site:

N/A.

D. Access Roads:

No additional roads will be required.

7. Methods for Handling Waste Disposal

A. Cuttings:

Cuttings will be contained in the reserve pit.

B. Drilling Fluids:

Drilling fluids will be retained in the reserve pit.

C. Produced Fluids:

Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.

7. Methods for Handling Waste Disposal (Cont'd)

- D. Sewage:  
Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations. The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage:  
There probably will not be much putrescible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion.
- F. Clean-Up of Well Site:  
Upon the release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to final restoration of the site.

8. Ancillary Facilities

None required.

9. Well Site Layout

- A. Exhibit IV
- B. Location of pits, etc. See Exhibit IV
- C. Rig orientation etc. See Exhibit IV
- D. Lining of pits:  
Pits will not be lined. They will be covered with a fine mesh netting, if necessary, for the protection of wildlife if fluids are found to be toxic.

10. Plans for Restoration of Surface

- A. Reserve pit clean up:  
The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following final restoration of the site.



10. Plans for Restoration of Surface (Cont'd)

- B. Restoration Plans - Production Developed:  
The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan - No Production Developed:  
The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, it will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitation Time Table:  
Upon completion of operations the initial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description: Surface description of the proposed wellsite location is located in the Largo Canyon Area and consists of sandy soil and sagebrush.
- B. Surface Use Activities:  
The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwellings and Historical Sites:
  - 1. Water:  
There are no reservoirs or streams in the immediate area.
  - 2. Occupied Dwellings:  
There are no occupied dwellings or buildings in the area.
  - 3. Sites:  
An archeological reconnaissance has been performed for this location and clearance has been granted.

12. Operator's Field Representative

Donald S. Barnes  
Division Drilling Engineer  
Tenneco Oil Company  
720 South Colorado Blvd.  
Penthouse  
Denver, CO 80222  
(303) 758-7130 Ext. 212

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and subcontractors will conform to this plan.

Date: 12/18/79

  
M. L. Freeman  
Staff Production Analyst

TENNECO OIL COMPANY

CALCULATION SHEET

EXHIBIT IV

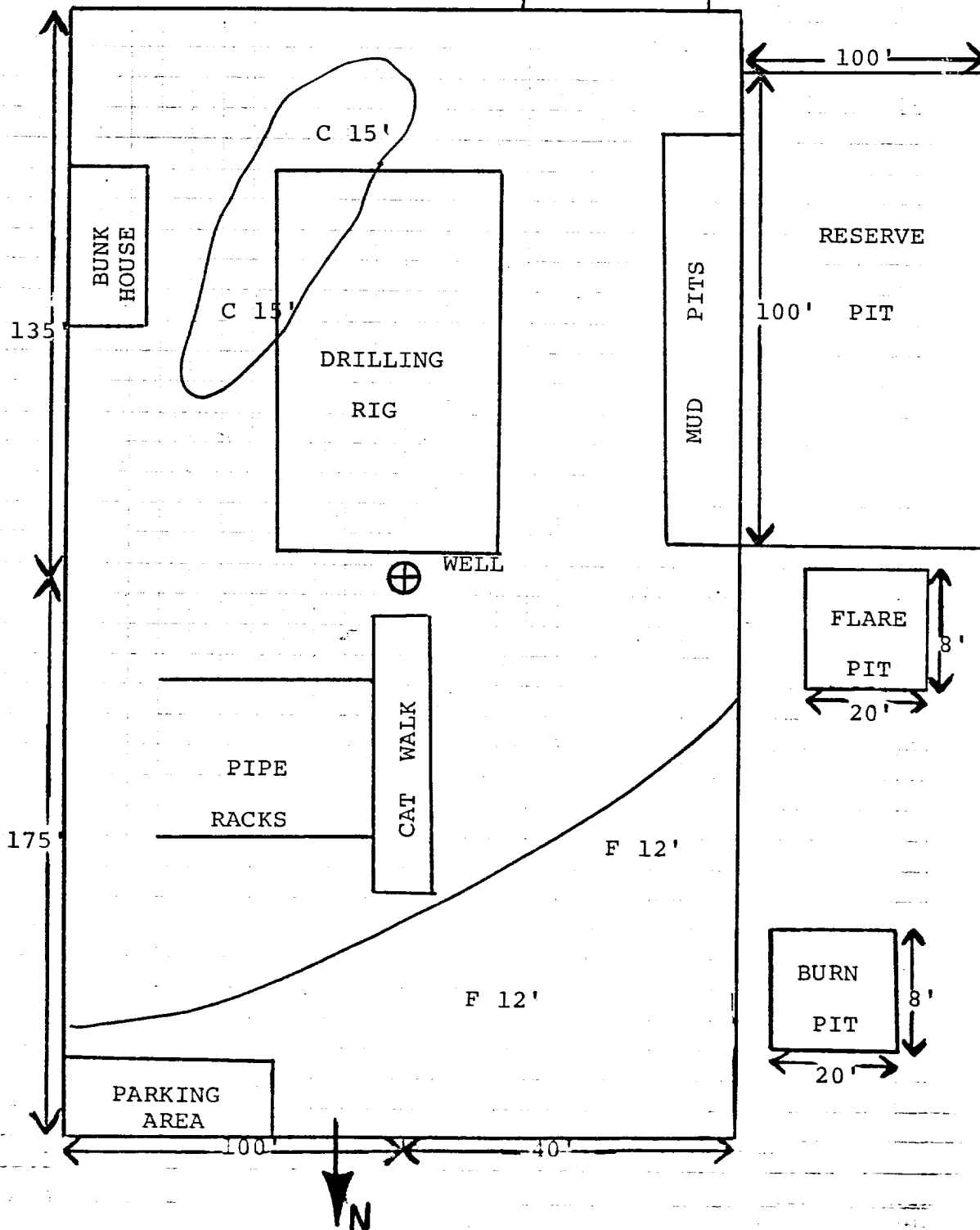
SUBJECT DRILLING WELL SITE LAYOUT WARREN COM #1

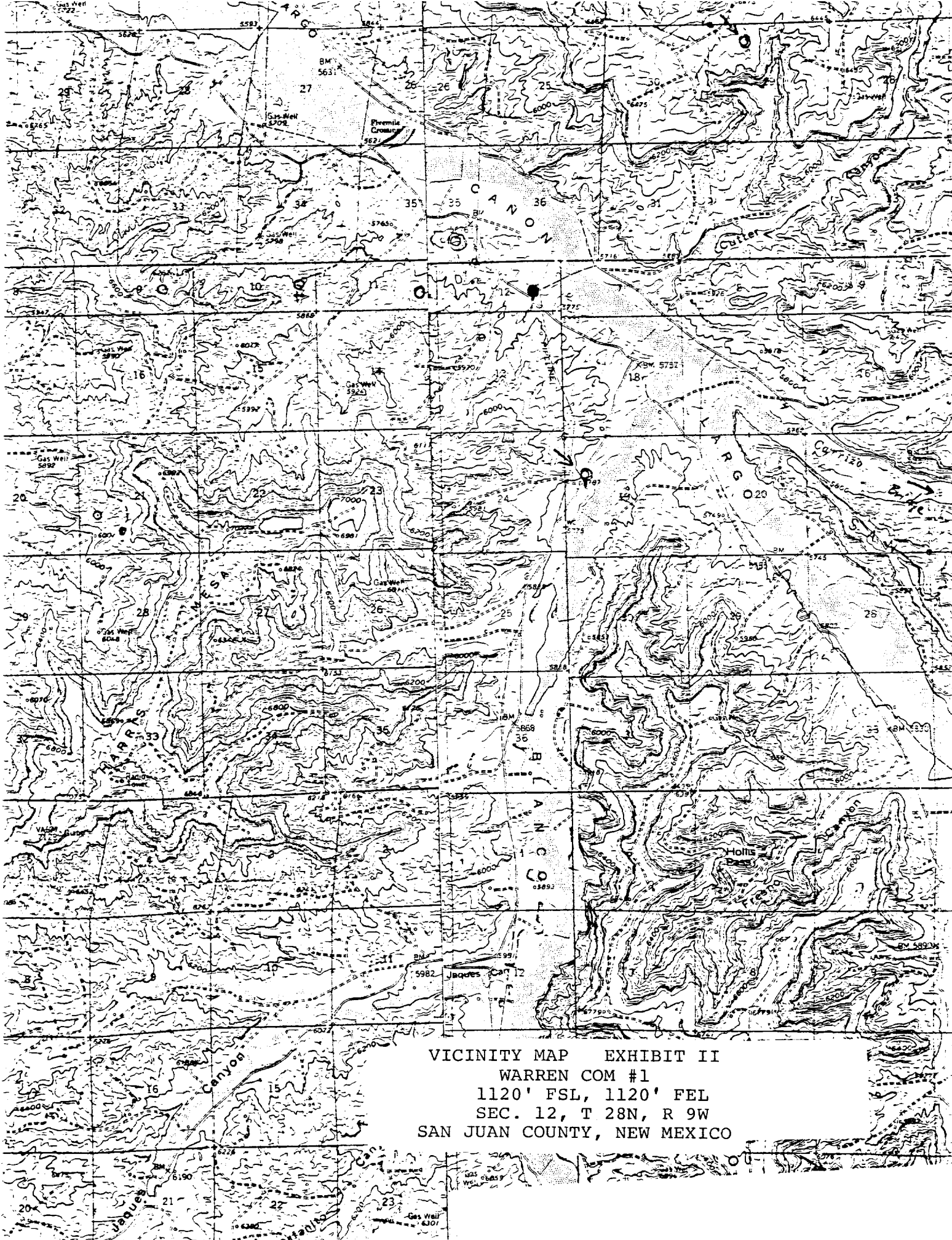
LOCATION 1120' FEL, 1120' FSL, SEC. 12, T 28N, R 9W

DATE: 8-79

SAN JUAN COUNTY, NEW MEXICO

NEW  
ROAD  
500'





VICINITY MAP EXHIBIT II  
WARREN COM #1  
1120' FSL, 1120' FEL  
SEC. 12, T 28N, R 9W  
SAN JUAN COUNTY, NEW MEXICO

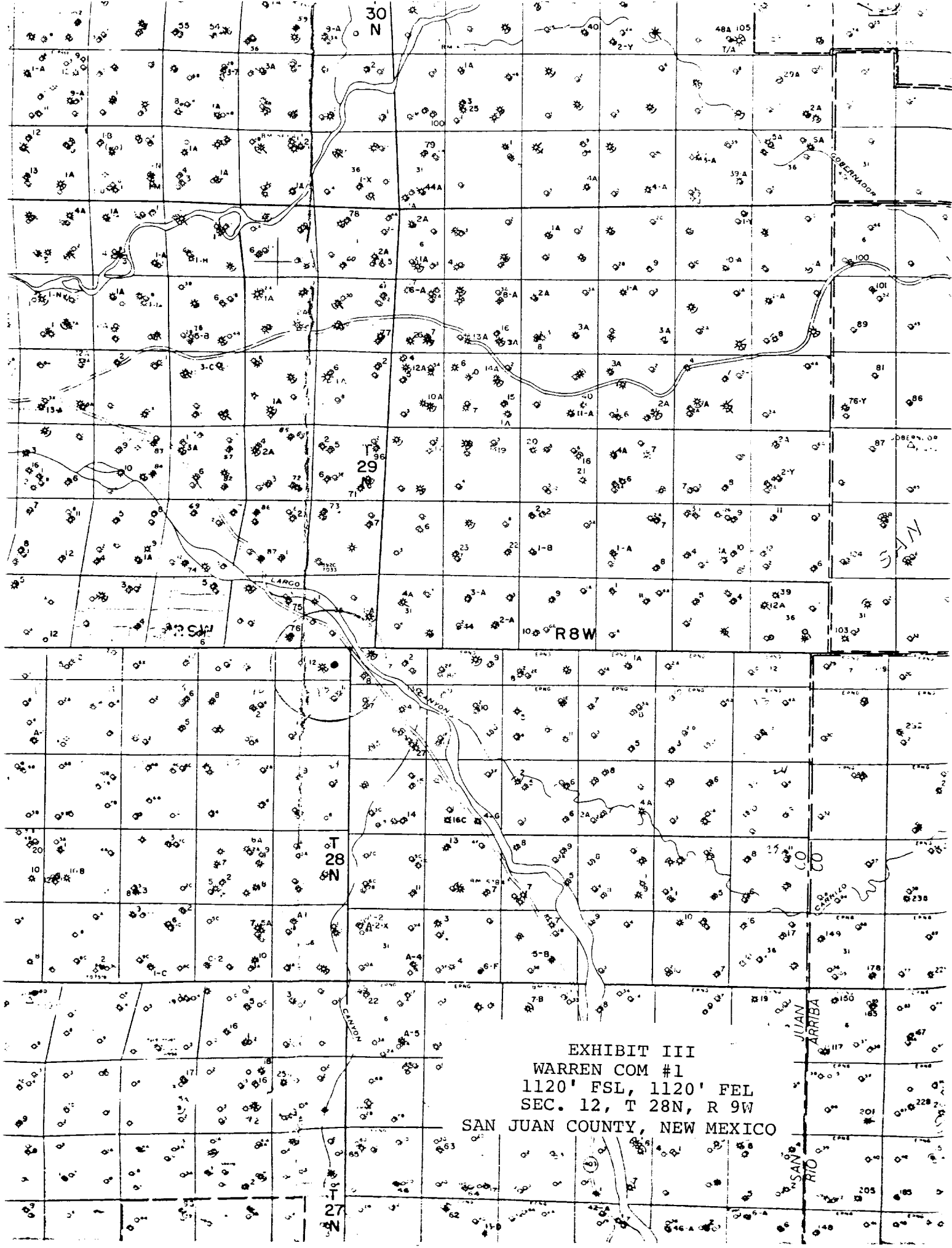


EXHIBIT III  
WARREN COM #1  
1120' FSL, 1120' FEL  
SEC. 12, T 28N, R 9W  
SAN JUAN COUNTY, NEW MEXICO