

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

GULF OIL CORPORATION

## 3. ADDRESS OF OPERATOR

P. O. Box 670, Hobbs, New Mexico 88240

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

At surface  
500' FNL & 990' FWL of Section 27, T-23-S, R-37-E  
At proposed prod. zone

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

Approximately 12 miles south &amp; 2 miles east of Eunice, NM

## 15. DISTANCE FROM PROPOSED\*

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

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

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

3286' GR

## 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"	24#	1180'	450 sx Class "C" <b>CIRCULATE</b>
7-7/8"	5-1/2"	15.5 - 17#	7600'	To be determined by caliper survey.

"APPROVAL TO BE  
WHILE DRILLING AND TESTING."

NOTE: See Attached BOP Drawing No. 3

Mud Program: 0' - 1180'  
1180' - 7000'  
7000' - 7600'Fresh water spud mud;  
Saturated salt water;  
Salt water polymer with the following properties:Viscosity, 34 - 38 seconds;  
Water Loss, 5 cc's or less;  
Weight, 9.6 - 10.0 ppg with 5% KCLNOTE: Heavier weight mud will be used if  
required by well conditions.Unless Drilling Operations have  
Commenced, this drilling approval  
Expires 7-27-78

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

*A. Borland*

TITLE Area Production Manager

DATE 3-15-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

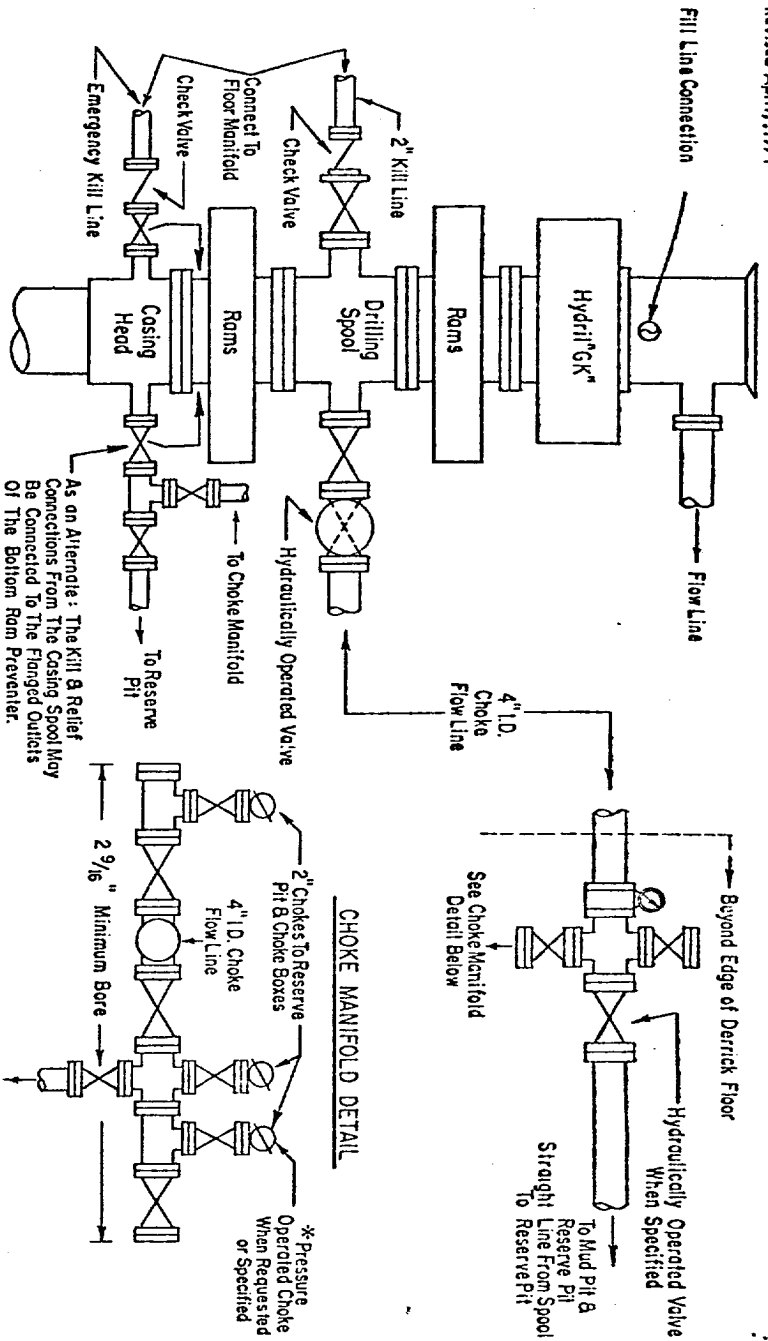
SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

\*See Instructions On Reverse Side

APPROVED  
AS AMENDED

APR 27 1978

A. A. F.  
ACTING DISTRICT ENGINEER



### 3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Hydril "GK" preventer; valves, chokes and connections as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are also available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line, except when air or gas drilling. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within \_\_\_\_\_ minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within \_\_\_\_\_ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

\* To include derrick floor mounted controls.

ADDITIONS - DELETIONS - CHANGES  
SPECIFY

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

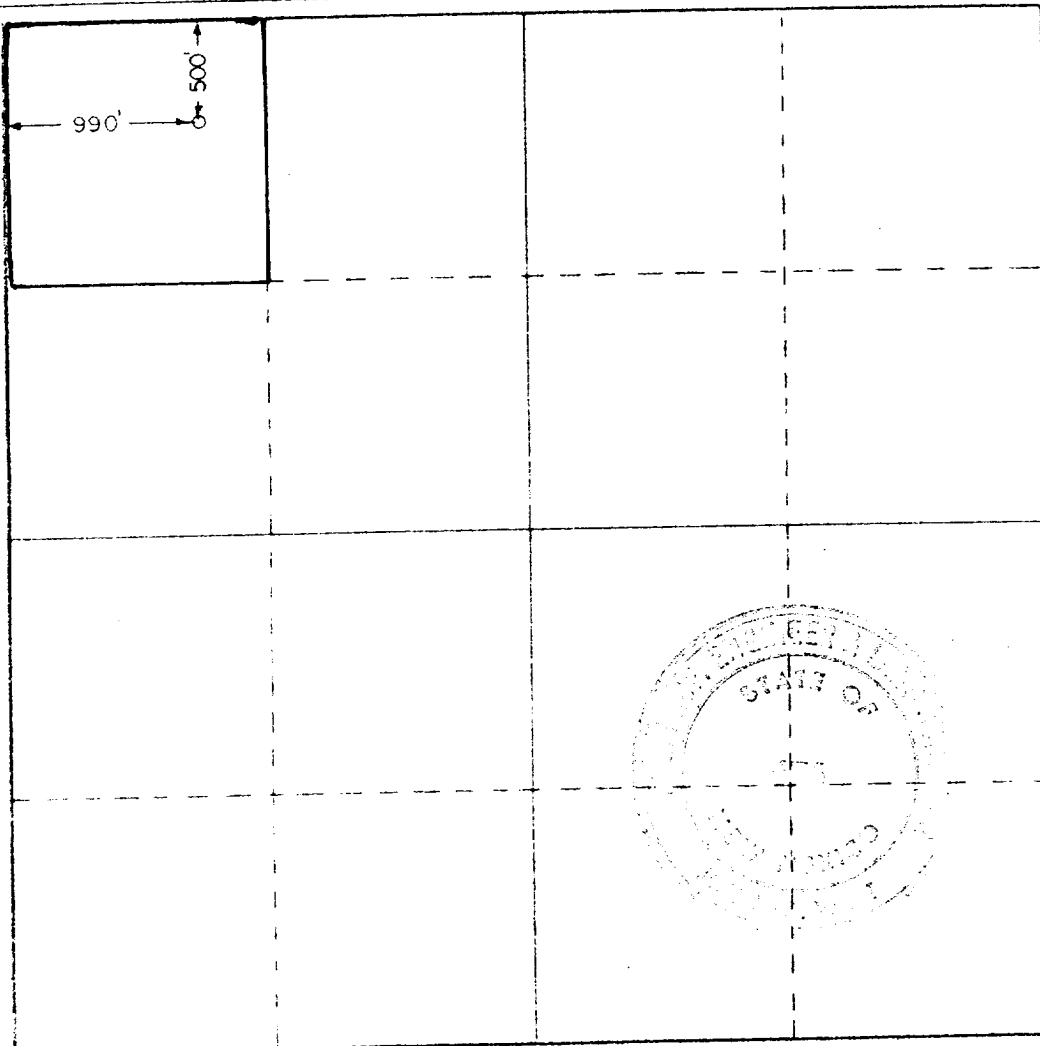
Gulf Oil Corp.			Lease C. E. La Munyon		Well No. 45
Section D	27	Township 23 South	Range 37 East	County Lea	
Actual Well Location of Well:					
990	feet from the	West	line and	500	feet from the North line
Ground Level Elev. 3286.5	Producing Formation Devonian		Pool North Teague Devonian	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 \_\_\_\_\_

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.

*C. D. Borland*

Name

C. D. Borland

Position

Area Production Manager

Company

GULF OIL CORPORATION

Date

March 15, 1978

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

2/6/78

Registered Professional Engineer and/or Land Surveyor

*John W. West*

Certificate No. John W. West 676

Ronald J. Eidson 3239

480 960 1440 1920 2400 2880 3360 3840 4320 4800 5280 5760 6240 6720 7200 7680 8160 8640 9120 9600 10080 10560 11040 11520 12000

# Gulf Energy and Minerals Company-U. S.

SOUTHWEST DIVISION  
HOBBS AREA

C. D. Borland  
AREA PRODUCTION MANAGER

March 9, 1978

P. O. Box 670  
Hobbs, NM 88240

Re: Application for Permit to Drill  
Proposed C. E. LaMunyon Well No. 45  
Lea County, New Mexico

U. S. Geological Survey  
P. O. Box 1157  
Hobbs, New Mexico 88240

Gentlemen:

We are submitting the information requested in NTL-6 which should accompany application for permit to drill.

Well: C. E. LaMunyon Well No. 45

1. Location: 500' FNL & 990' FWL of Section 27, T-23S, R-37E, Lea County, NM
2. Elevation of Unprepared Ground: 3286' GL
3. Geologic Name of Surface Formation: Quarternary Alluvium
4. Type Drilling Tools: Rotary
5. Proposed Drilling Depth: 7600'
6. Estimated Top of Geologic Markers: Anhydrite, 1125'; Salt, 1245'; Yates, 2520'; Grayburg, 3535'; Glorieta, 4910'; Tubb, 5920'; Devonian, 7250'
7. Estimated Depths at which Anticipated Gas or Oil-Bearing Formations Expected:
  - a. 2520' - Yates
  - b. 5920' - Tubb
  - c. 7250' - Devonian
8. Casing Program and Setting Depths:

	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>SETTING DEPTH</u>
Surface	8-5/8"	24#	K55	1180'
Production	5-1/2"	15.5#-17#	K55-N80	7600'



9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 8-5/8" set at 1180' and cemented with 250 sacks of Class "C" with 6% gel with 2%  $\text{CaCl}_2$  followed by 200 sacks of Class "C" with 2%  $\text{CaCl}_2$ .
- b. Production casing will be 5-1/2" set at approximately 7600' and cemented with DV tool at 3500' in two stages. First stage will be Class "C" with 6% gel, 1/2# salt, 1/4# Flocele followed by Class "C" with 1/2% CFR-2. Second stage will be Class "C" with 16% gel Gulfmix followed by Class "C" Neat. Volumes will be determined by caliper log.

10. Pressure Control Equipment:

The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 3 of Gulf's blowout preventer hook-up for 3000 psi working pressure.

11. Circulating Media: 0' - 1180', fresh water spud mud; 1180' - 7000', saturated salt water; 7000' - 7600', salt water polymer with the following properties: Viscosity, 34-38 seconds; Water loss, 5 cc's or less; Weight, 9.6 to 10 ppg w/5% KCl. Heavier weight mud will be used if required by well conditions.

12. Testing, Logging and Coring Programs:

- a. Formation testing may be done at any depth where samples, drilling rate, or log information indicate a possible show of oil or gas.
- b. Open hole logs will be run at total depth.
- c. Cores will be taken in the Devonian formation.

13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, BOP's with remote control and choke manifold as shown on Drawing No. 3 will be installed prior to drilling below intermediate casing.

14. Anticipated Starting Date: Drilling operations should start between April 15, 1978 and May 15, 1978.

15. Other Facets of the Proposed Operation: None



C. D. BORLAND  
Area Production Manager

# Gulf Energy and Minerals Company-U. S.

SOUTHWEST DIVISION  
HOBBS AREA

C. D. Borland  
AREA PRODUCTION MANAGER

March 9, 1978

P. O. Box 670  
Hobbs, NM 88240

Re: Surface Development Plan  
Proposed C. E. LaMunyon Well #45,  
500' FNL & 990' FWL of Section 27,  
T-23S, R-37E, Lea County, New Mexico

U. S. Geological Survey  
P. O. Box 1157  
Hobbs, New Mexico 88240

Gentlemen:

The surface use and operations plan for the proposed well are as follows:

1. Existing Road

- A. Exhibit "A" is a portion of a general lease map showing the location of the proposed well as staked. Go approximately 12 miles south of Eunice, New Mexico on U.S. Highway 18 and turn east past the ranch house on lease road. The staked location is approximately 2 miles from U.S. Highway 18.
- B. Exhibit "B" is a portion of a lease map showing all existing roads within one mile radius of the well site.

2. Planned Access Roads

- A. No new road will be needed since location is in corner of two lease roads.
- B. Surfacing Material: None required
- C. Turnouts: None required
- D. Culverts: None required
- E. Cuts and Fills: None required
- F. Gates and Cattleguards: None required

3. Location of Existing Wells

- A. Existing wells within a one mile radius are shown on Exhibit "B".



#### 4. Location of Proposed Facilities

Should this well be completed as a commercial producing well, tank battery facilities are already available. The only additional equipment needed will be a flow line to the existing tank battery.

#### 5. Location and Type of Water Supply

Water for drilling well will be purchased from a supplier and transported by truck to the well site over existing roads as shown in Exhibit "B".

#### 6. Source of Construction Material

Caliche for the well pad will be obtained from an existing pit in the SW/4 of the NW/4 of Section 28 which belongs to the surface owner.

#### 7. Methods of Handling Waste 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 pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24" of dirt. All waste material will be contained to prevent scattering by the wind. Location of trash pit is shown on Exhibit "D".
- F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations.

#### 8. Ancillary Facilities

None required

#### 9. Well Site Layout

- A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit and location of major rig components.
- B. Only minor levelling of the well site will be required. No significant cuts and fills will be necessary.
- C. The reserve pit will be plastic lined.

9. Well Site Layout Continued ...

D. The pad and pit area has been staked and flagged.

10. Plans for Restoration of the Surface

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

B. Any unguarded pits containing fluids will be fenced until they are filled.

C. After abandonment of the well, surface restoration will be in accordance with the agreement with surface owner. Pits will be filled and location will be cleaned. The pit area, well pad and all unneeded access road will be ripped to promote revegetation. Rehabilitation should be accomplished within 90 days after abandonment.

11. Other Information

A. Topography: Land surface is undulating to gently rolling grassland.  
The undisturbed elevation is 3286' at the well site.

B. Soil: Soil is a deep, fine sand underlain by caliche.

C. Flora and Fauna: The vegetative cover is generally sparse and consists of yucca, shinnery oak and perennial native grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove, quail and other birds.

D. Ponds and Streams: There are no rivers, streams, lakes or ponds in the area.

E. Residences and Other Structures: The nearest occupied dwelling is a ranch house 2 miles west of the well site. The nearest water well is located at the ranch house.

F. Archeological, Historical and Cultural Sites: None observed in the area.

G. Land Use: Grazing and hunting (in season).

H. Surface Ownership: Surface is fee land owned by Goins Ranch Corporation. All surface damages will be settled with M.L. Goins before construction begins.



12. Operator's Representative:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Gulf Energy & Minerals Company - U.S.  
A Division of Gulf Oil Corporation  
P. O. Box 670  
Hobbs, New Mexico 88240  
Telephone: 505 393-4121  
Area Production Manager: C. D. Borland

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 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 Gulf Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

4-4-78

DATE

C. D. Borland

C. D. BORLAND  
Area Production Manager

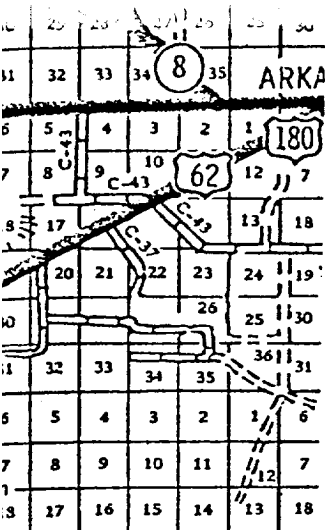
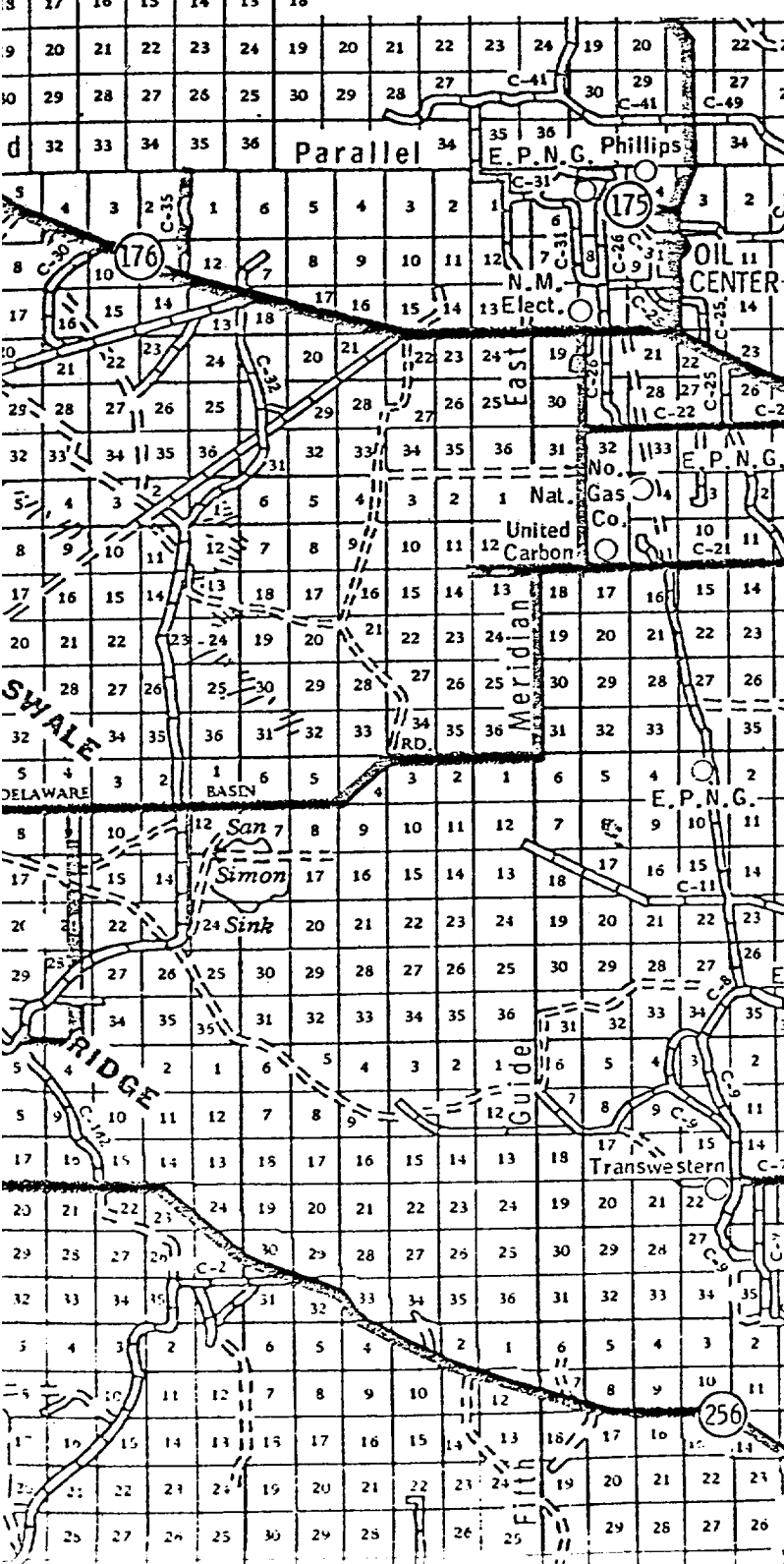


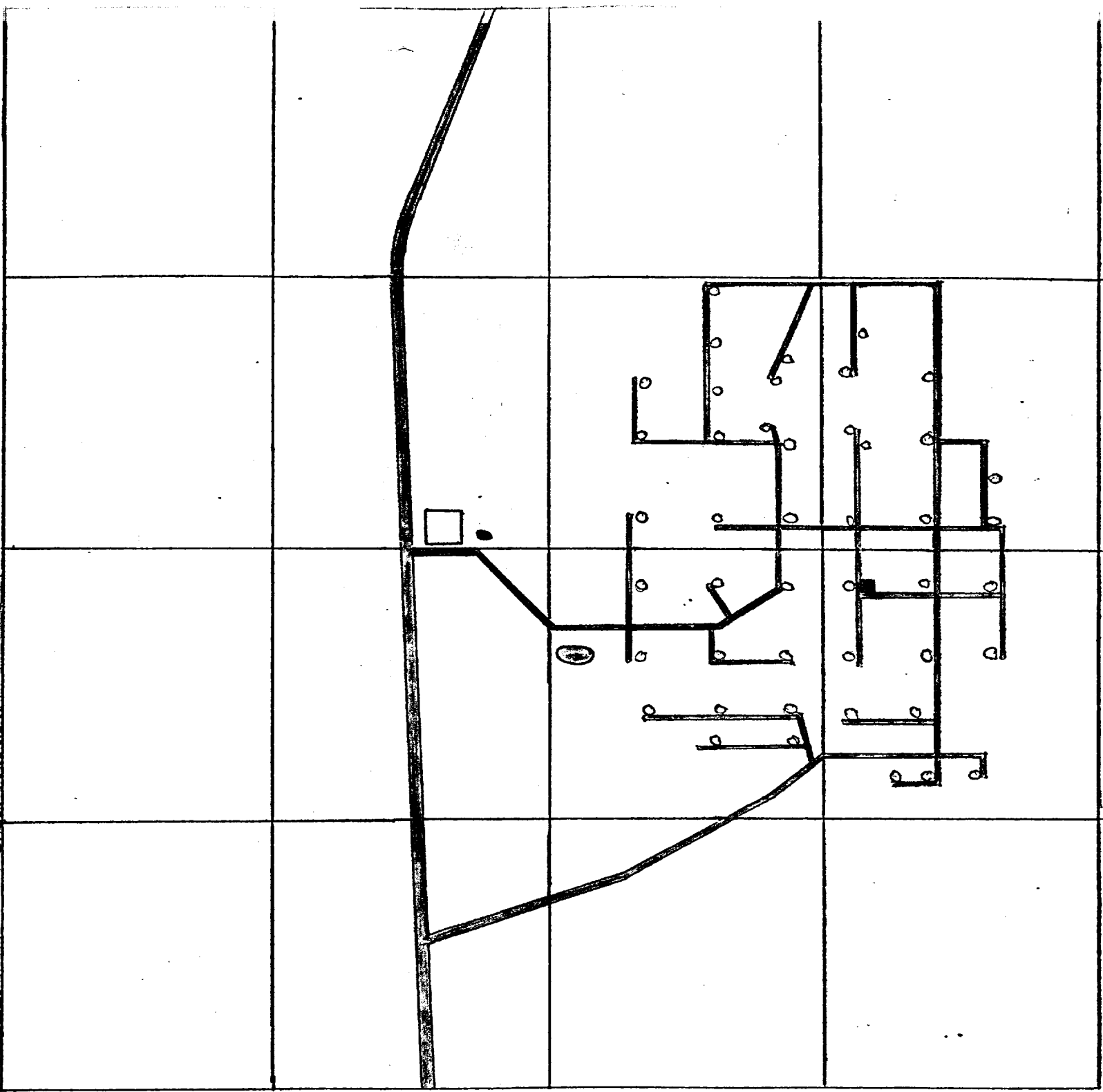
Exhibit A

C.E. La Mungon #45

Sec 27-T23S-R31E

Lea County, New Mex








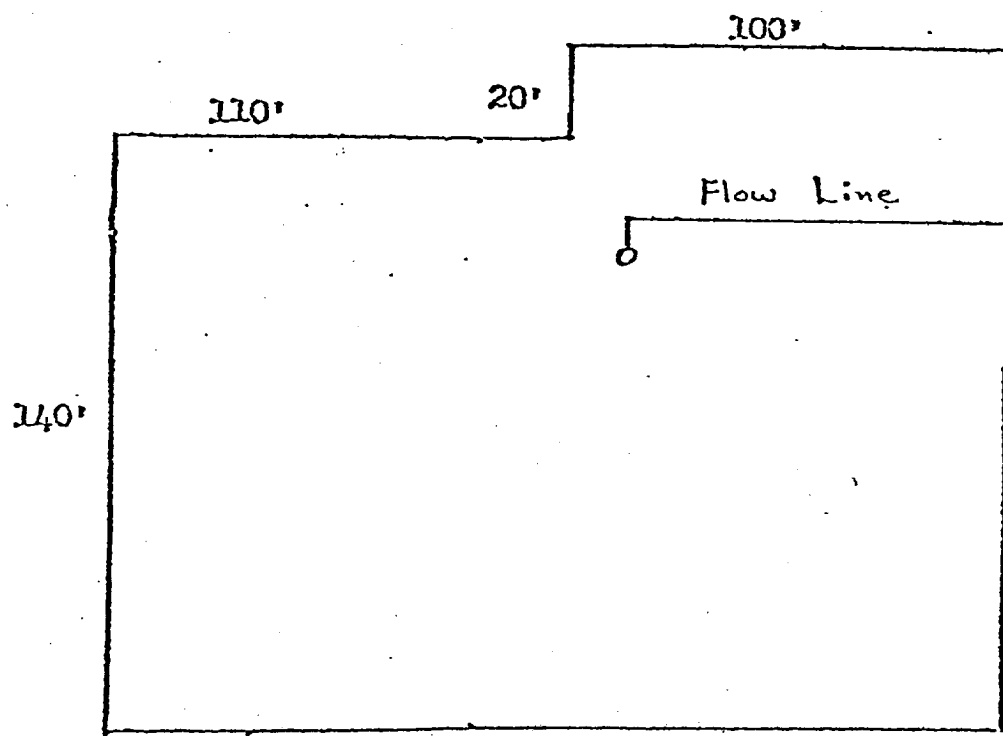
- Existing Roads —
- Proposed New Access —
- Caliche pit 
- Residence 
- Water Well 

Exhibit B  
C.E. Lamunyon #45  
Sec 27-T23S-R37E  
Lea County, New Mexico



Scale: 1" = 50'

Exhibit C

Production Pad Layout

C.E. La Munyon #45

Sec 27-T235-R37E.

Lea County, New Mexico

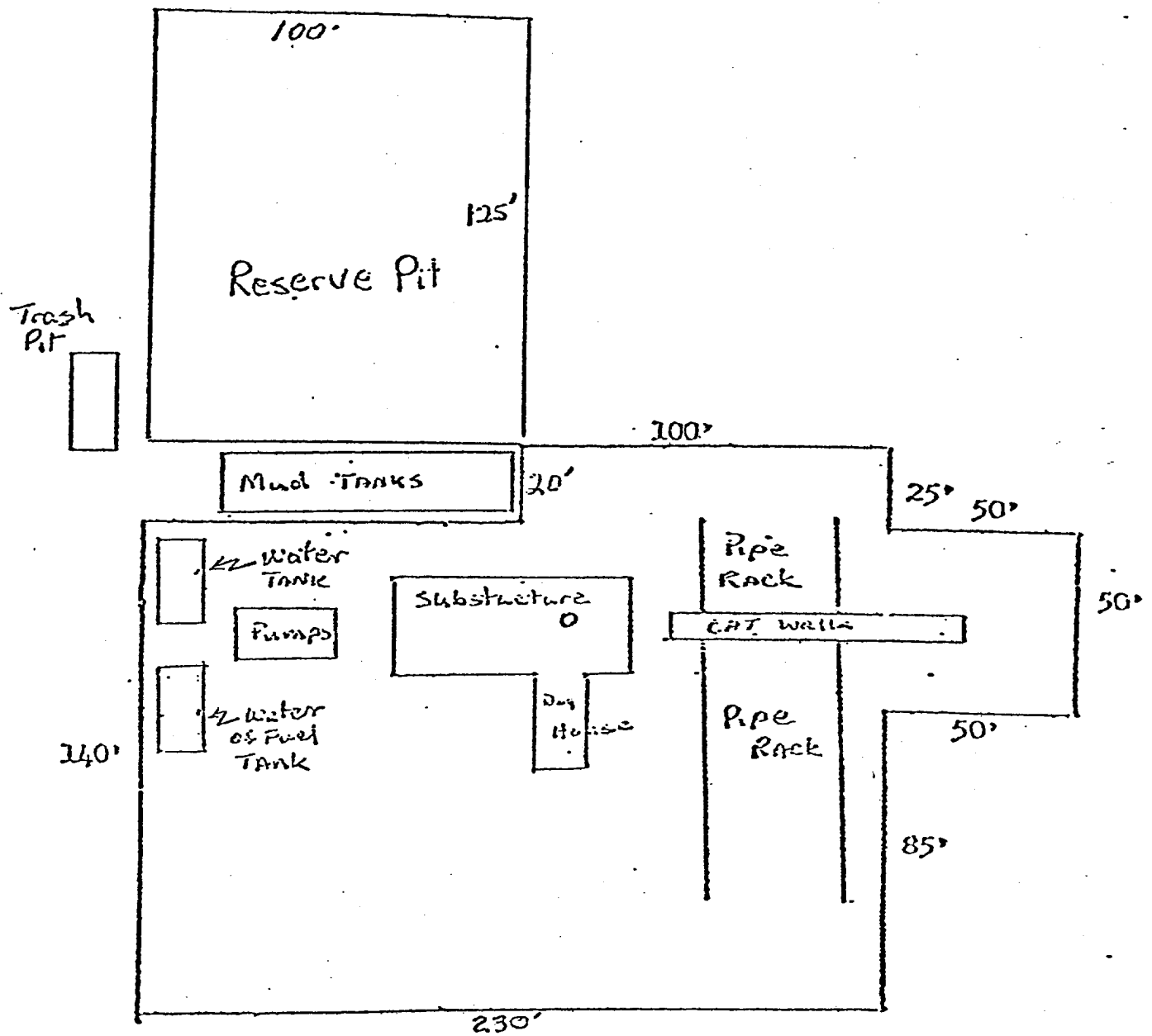


Exhibit D

Pad Layout

C.E. La Munyon #45

Sec 27-T235-R37E

Lea County, N.M.