Form 9-331 C
(May 1963)

COPY TO O. C. C.

SUBMIT IN TR[illegible]CATE*
(Other instruc[illegible] on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] 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
1780' FSL & 1880' FWL of Sec. 22, T-23-S, R-37-E
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
LC 030187

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
C. E. LaMunyon

9. WELL NO.
46

10. FIELD AND POOL, OR WILDCAT
North Teague Devonian

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T-23S, R-37E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 12 miles south & 2 miles east of Eunice, NM

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

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

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

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

19. PROPOSED DEPTH
7600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3284' GL

22. APPROX. DATE WORK WILL START*
08-15-78

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#	1080'	450 sx Class "C" - Circulate
7-7/8"	5-1/2"	15.5# - 17#	7600'	To be determined by caliper survey

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

NOTE: See Attached BOP Drawing No. 3

Circulating Media:
0' - 1080' Fresh water spud mud;
1080' - 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 10.0 ppg with 5% KCl
NOTE: Heavier weight mud will be used if required by well conditions.

RECEIVED
AUG 2[illegible] 1978
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

"APPROVAL TO FLARE GRANTED WHILE DRILLING AND TESTING."

[illegible] commenced, this drilling approval
Expires 11-25-78

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 [signature] TITLE Area Production Manager DATE 06-26-78

(This space for Federal or State office use)

PERMIT NO. ______ APPROVAL DATE ______

APPROVED BY ______ TITLE ______ DATE ______
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
AUG 25 1978
[initials]
ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL L ATION AND ACREAGE DEDICATION F T

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

All distances must be from the outer boundaries of the Section

Operator: Gulf Oil Corp.	Lease: C. E. La Munyon		Well No.: 46
Unit Letter: K	Section: 22	Township: 23 South	Range: 37 East	County: Lea
Actual Footage Location of Well: 1780 feet from the South line and 1880 feet from the West line			
Ground Level Elev.: 3284.5	Producing Formation: Devonian	Pool: North Teague Devonian	Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

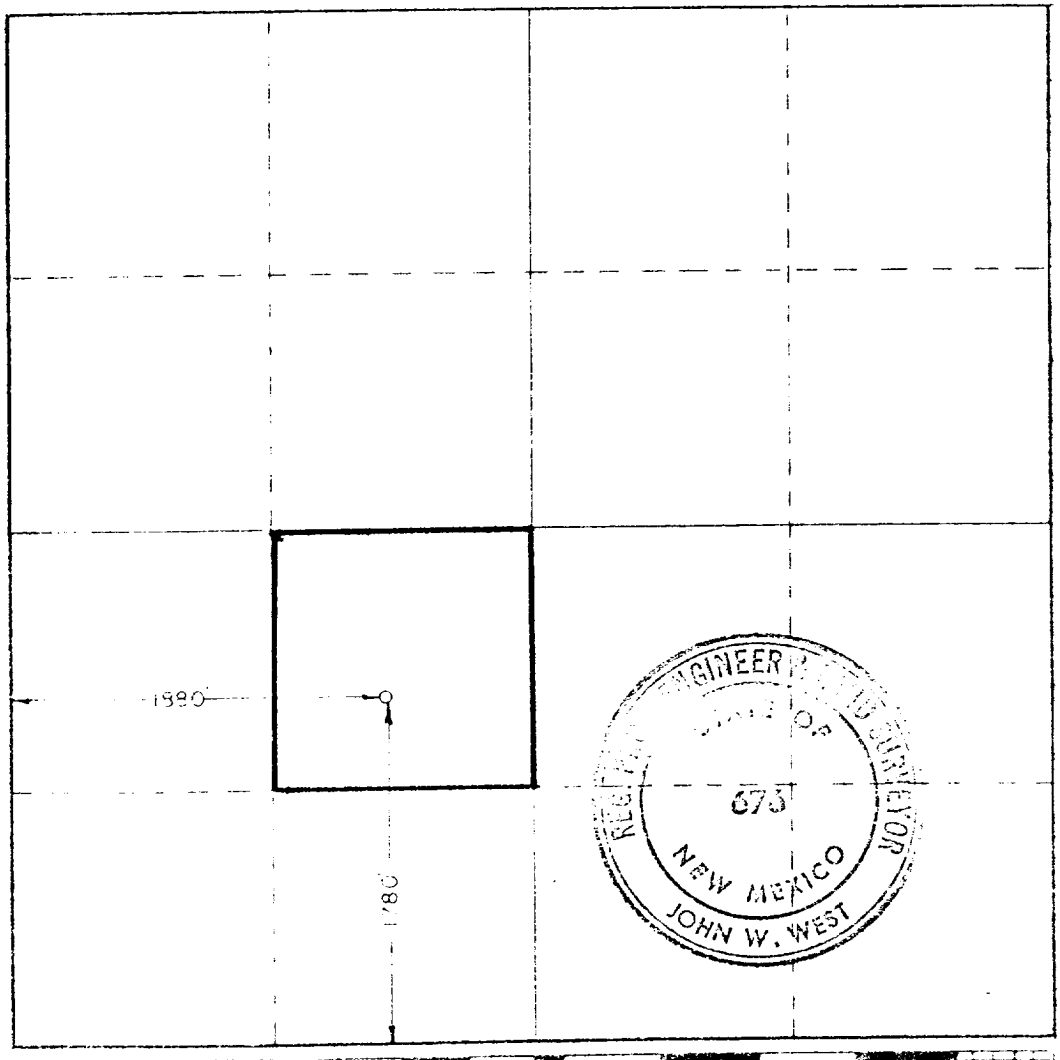
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 _____

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: June 26, 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: Sept. 9, 1977

Registered Professional Engineer and/or Land Surveyor

John W West

Certificate No. 676

Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

June 23, 1978

P. O. Box 670
Hobbs, NM 88240

Re: Application for Permit to Drill Proposed
C. E. LaMunyon Well No. 46, Lea County,
New Mexico

U. S. Geological Survey
P. O. Box 1157
Hobbs, NM 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. 46

(1) Location: 1780'FSL and 1880'FWL Section 22, T-23-S, R-37-E, Lea County, New Mexico.

(2) Elevation of Unprepared Ground: 3284' 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: Salt 1150', Yates 2580', Grayburg 3610', Glorieta 4970', Tubb 5920', Devonian 7310'.

(7) Estimated Depths at which Anticipated Gas or Oil-Bearing Formations Expected:

(a) Yates 2580'
(b) Tubb 5920'
(c) Devonian 7310'

(8) Casing Program and Setting Depths:

	Size	Weight	Grade	Setting Depth
Surface	8-5/8"	24#	K55	1080'
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 1080' and cemented with 250 sacks Class "C" with 6% gel with 2% $CaCl_2$, followed by 200 sacks Class "C" with 2% $CaCl_2$.

(b) Production casing will be 5-1/2" set approximately 7600' and cemented in two stages with DV tool at 3500'. First stage will be Class "C" with 6% gel, 1/2# salt, 1/4# flocel, followed by Class "C" with 1/2% CFR-2. Second stage will be Class "C" with 16% Gulfmix followed by Class "C" neat. Volumes to be determined by caliper.

(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'-1080' fresh water spud mud; 1080'-7000' saturated salt water; 7000'-7600' salt water polymer with the following properties: viscosity 34-38 sec., water loss 5cc or less, weight 9.6 to 10 ppg with 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) Core 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, prior to drilling below intermediate casing.

The presence of hydrogen sulfide gas is not anticipated.

(14) Anticipated Starting Date: Drilling operations should start between August 1, 1978 and September 1, 1978.

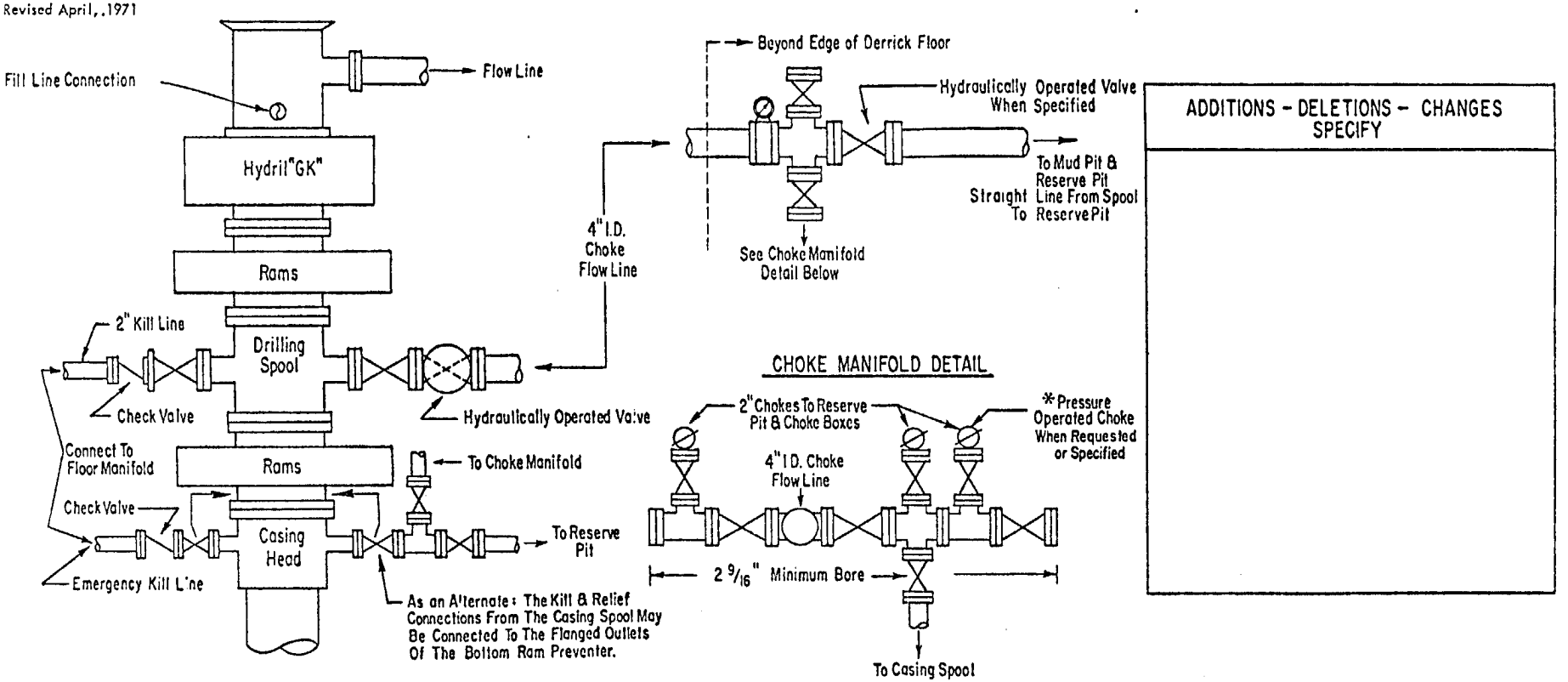
(15) Other Facets of the Proposed Operation: None.

Yours very truly,

C. D. BORLAND
Area Production Manager

Attachments
LVT/dch

DRAWING NO. 3
Revised April, ,1971



ADDITIONS - DELETIONS - CHANGES SPECIFY

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 to be 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 _____ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least _____ 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.

Gulf Oil Exploration and Production Company

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

June 26, 1978

P. O. Box 670
Hobbs, NM 88240

United States Department of the Interior
GEOLOGICAL SURVEY
P. O. Box 1157
Hobbs, New Mexico 88240

Attention: Mr. J. F. Sims
District Engineer

Gentlemen:

The following is Gulf Oil Corporation's plan for surface restoration associated with the drilling of our C. E. LaMunyon Well No. 46 which is located 1780 feet from the south line and 1880 feet from the west line of Section 22, Township 23-S, Range 37-E, Lea County, New Mexico.

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 the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing condition as possible. Any unguarded pits containing fluids will be fenced until they are filled.

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

Yours very truly,

C. D. Borland

C. D. BORLAND

RMQ:bp

Subscribed and sworn to before me this 26 th day of June 19 78

Notary Public

My Commission Expires: 8-21-81 Lea County, New Mexico

Gulf

A DIVISION OF GULF OIL CORPORATION

Gulf Oil Exploration and Production Company

June 23, 1978

C. D. Borland
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670
Hobbs, NM 88240

Re: Surface Development Plan - Proposed
C. E. LaMunyon Well No. 46, 1780'FSL
and 1880'FWL, Section 22, T-23-S, R-37-E,
Lea County, New Mexico

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

Gentlemen:

The surface use and operations plan for the proposed well is 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, turn east past ranch house on lease road.

(b) Exhibit "B" is a portion of a lease map showing all existing roads within a one mile radius of the well site.

(2) PLANNED ACCESS ROADS

(a) Length and Width: No new road is needed. Location is being built adjacent to an existing road.

(b) Surfacing Material: None required.

(c) Turnouts: None required.

(d) Culverts: None required.

(e) Cuts and Fills: None required.

(f) Gates and Cattle Guards: 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. All lines will be installed above ground and located as shown on Exhibit "C".

(5) LOCATION AND TYPE OF WATER SUPPLY

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

(6) SOURCE OF CONSTRUCTION MATERIAL

(a) Caliche for surfacing the road and the well pad will be obtained from an existing pit in the SW/4 of 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

(a) 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.

(9) WELL SITE LAYOUT (Continued)

(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.

(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 the 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 and duny. The undisturbed ground elevation is 3284' 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 perenial 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 three 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 Mr. 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 Oil Exploration and Production Company,
A Division of Gulf Oil Corporation
P. O. Box 670
Hobbs, NM 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-27-78
Date

C. D. BORLAND
Area Production Manager

Attachments
LVT/dch

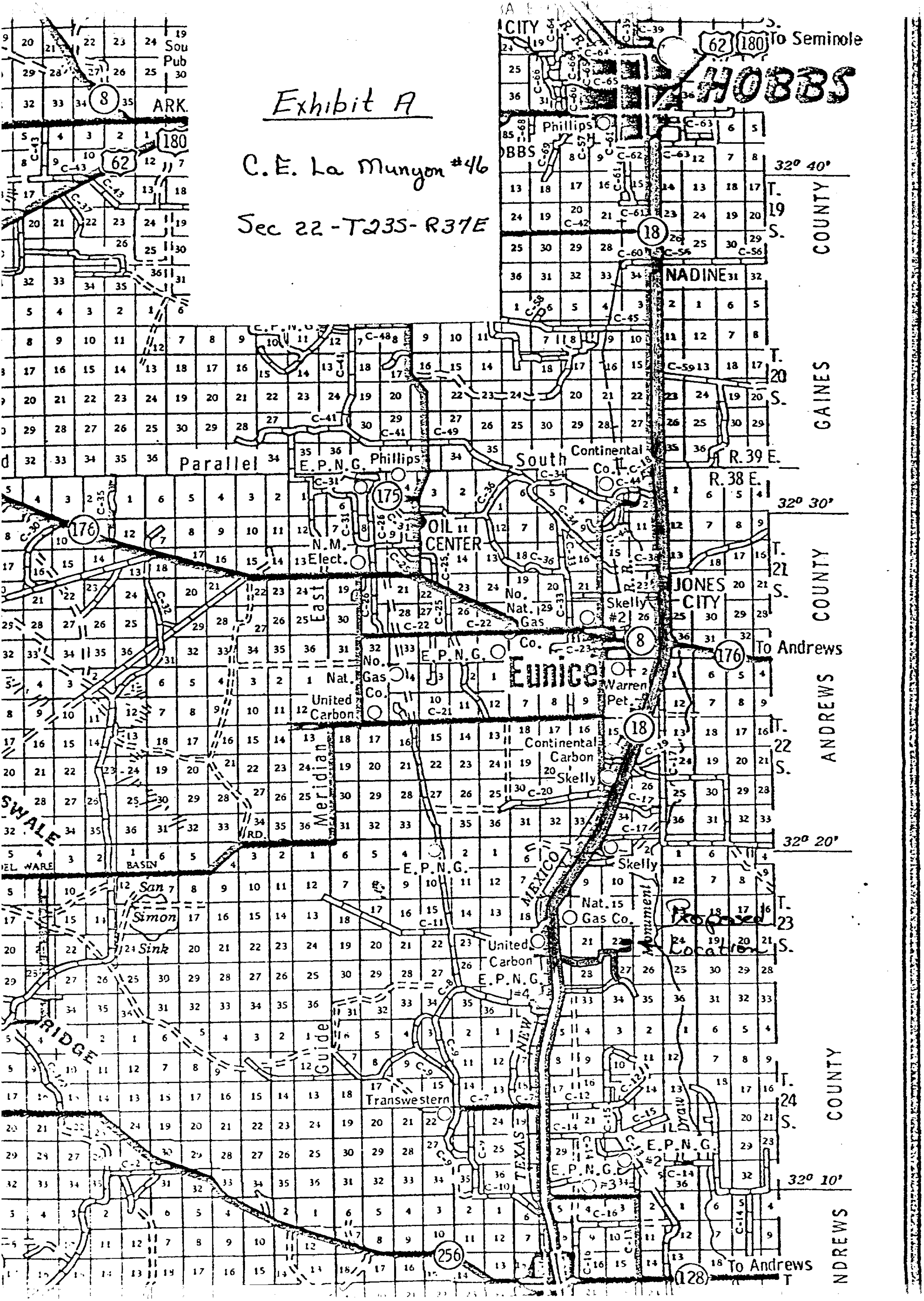
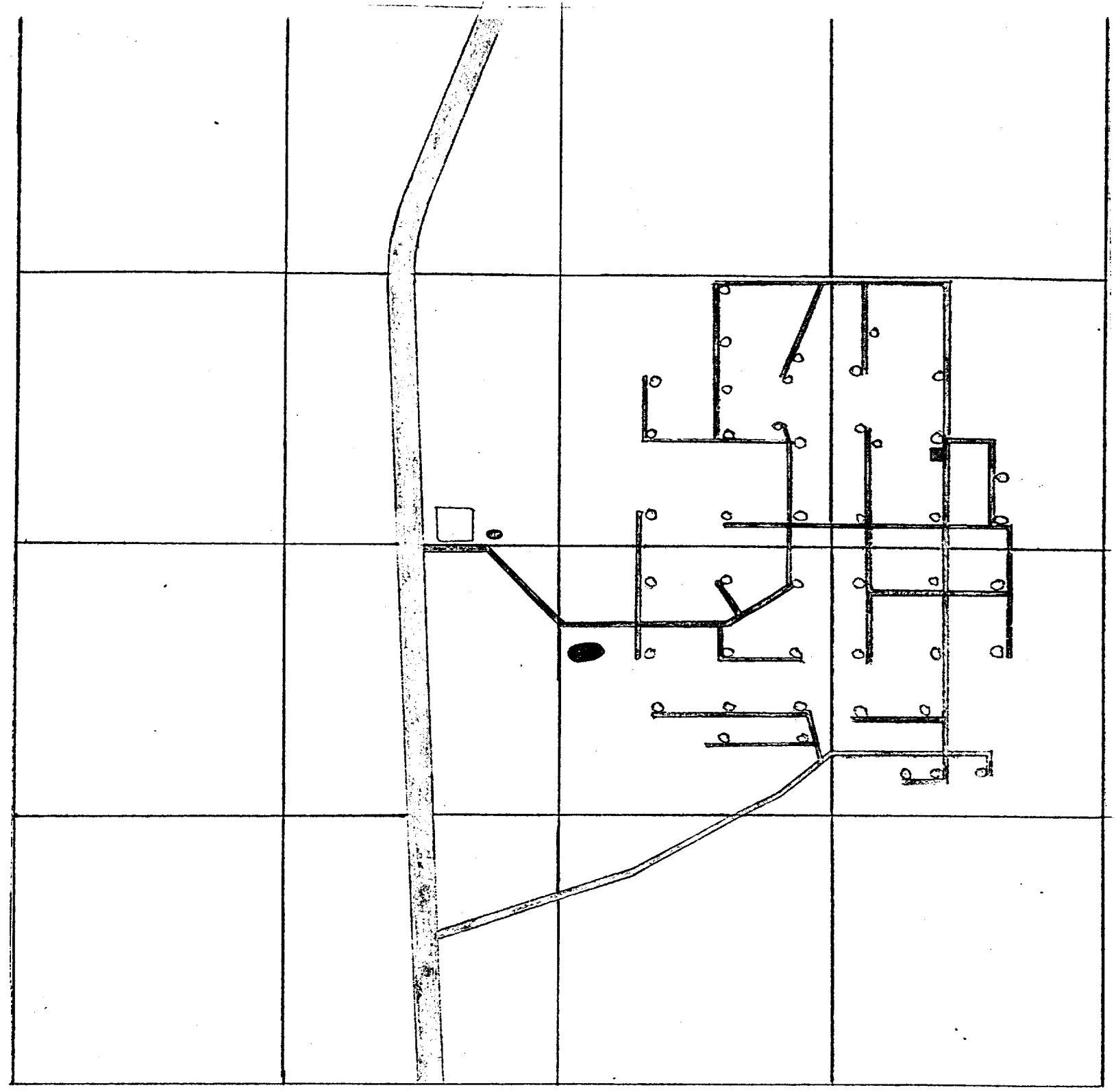


Exhibit A
C.E. La Munyon #46
Sec 22-T23S-R37E
Proposed Location
HOBBS
To Seminole
NADINE
Phillips
Parallel
South
Continental Co.
E.P.N.G.
OIL CENTER
N.M. Elect.
JONES CITY
Skelly #2
No. Nat. Gas Co.
To Andrews
Eunice
Warren Pet.
United Carbon
East Meridian
Continental Carbon
Skelly
Nat. Gas Co.
Monument Draw
San Simon Sink
SWALE
RIDGE
DELAWARE BASIN
Guide
Transwestern
NEW MEXICO
TEXAS
T. 19 S.
T. 20 S.
T. 21 S.
T. 22 S.
T. 23 S.
T. 24 S.
R. 39 E.
R. 38 E.
32° 40'
32° 30'
32° 20'
32° 10'
GAINES COUNTY
ANDREWS COUNTY



Existing roads —

Proposed New access

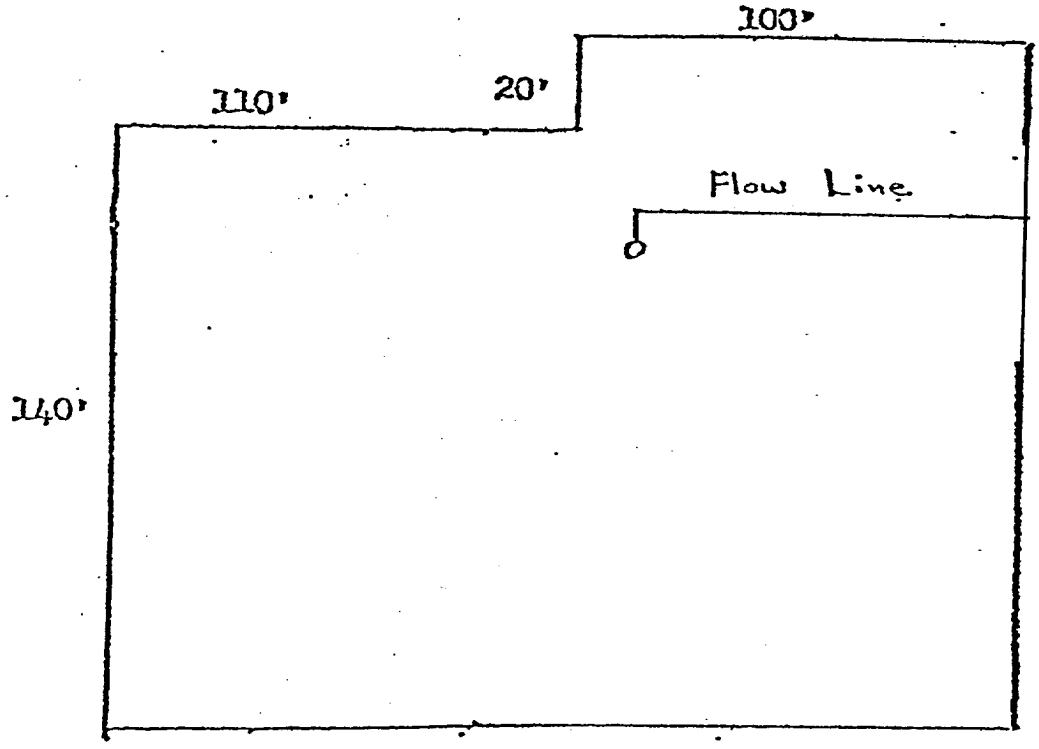
Caliche pit ●

Residence □

Exhibit B

C.E. La Munyon #46

Sec 22-T23S-R37E



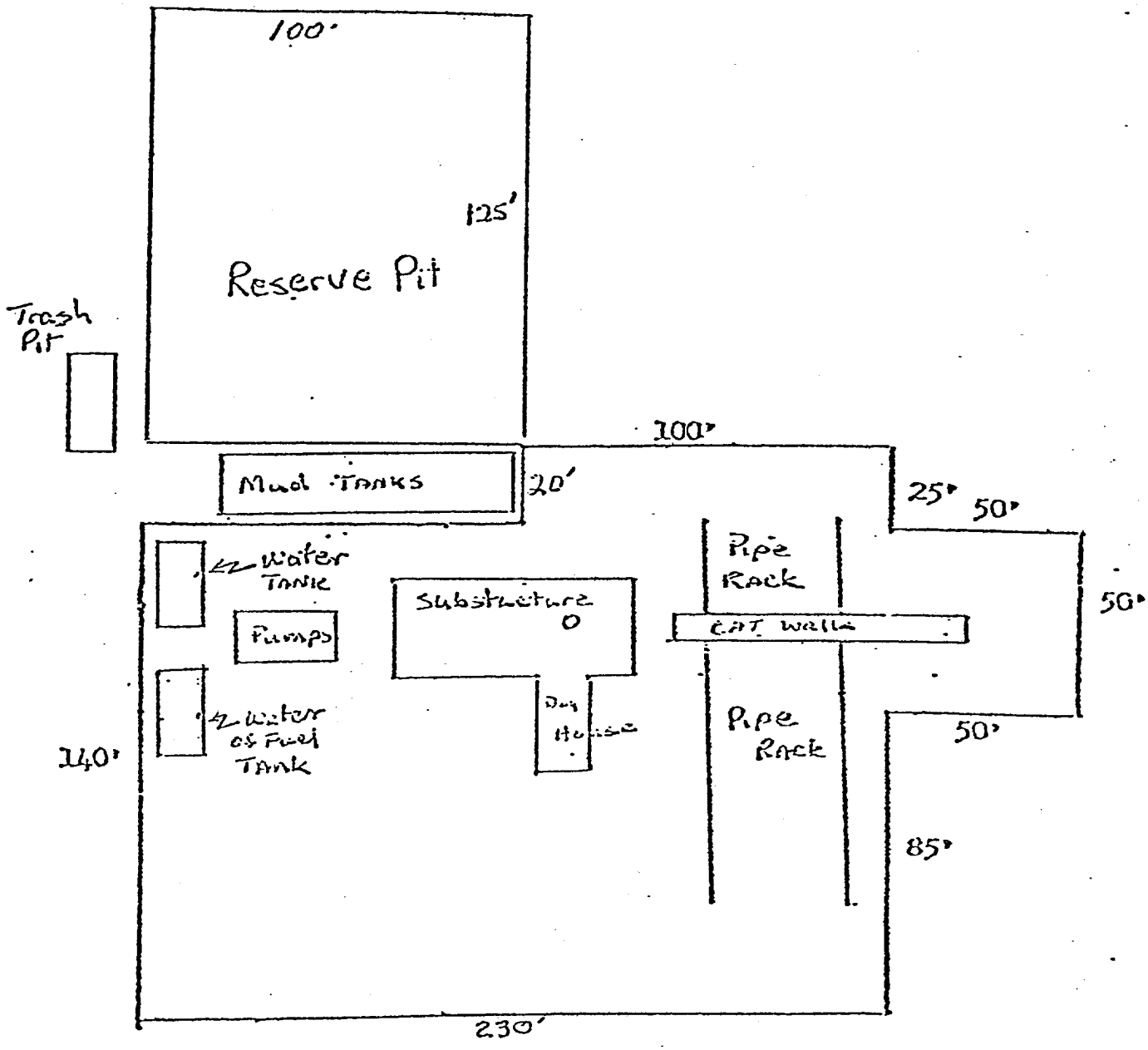
Scale: 1" = 50'

Exhibit C

Production Pad Layout

C.E. La Munyon #46

Sec 22 - T23S - R37E



Scale: 1" = 50'

Exhibit D

Pad Layout

C.E. La Munyon #46

Sec 22-T23S-R37E

U. S. Geological Survey

HOBBS DISTRICT

Gulf Oil Corporation
No. 46 C. E. LaMunyon
NE¼SW¼ sec. 22, T. 23 S., R. 37 E.
Lea County, New Mexico

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to compliance with the attached General Requirements for Drilling Operations on Federal Oil and Gas Leases, dated January 1, 1977.

2. Notify this office (telephone (505) 393-3612) when the well is to be spudded and in sufficient time for a representative to witness all cementing operations. Attached are names and telephone numbers of Geological Survey and Bureau of Land Management personnel who are available for consultation during construction, drilling, completion, and rehabilitation activities.

3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.

4. Secure prior approval of the District Engineer for variance from the approved drilling program and before commencing plugging operations, plug-back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely.

5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.

6. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.

7. Minimum required fill of cement behind the 5-1/2" casing is to the base of the salt section.