COPY TO O. C. C.

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions 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

5. LEASE DESIGNATION AND SERIAL NO.: LC 030187

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: C. E. LaBoyon

2. NAME OF OPERATOR: GULF OIL CORPORATION

9. WELL NO.: 49

3. ADDRESS OF OPERATOR: P. O. Box 670, Hobbs, New Mexico 88240

10. FIELD AND POOL, OR WILDCAT: Undesignated

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
At proposed prod. zone: 2150' FNL & 550' FEL of Sec. 21, T-23S, R-37E

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 21, T-23S, R-37E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 12 miles south & 4 miles east of Fumice, 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): 550'

16. NO. OF ACRES IN LEASE: 1920

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.: 1320'

19. PROPOSED DEPTH: 7600'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3303.2 GL

22. APPROX. DATE WORK WILL START*: 2-1-78

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

NOTE: See Attached BOP Drawing No. 3

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

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 consitions.

RECEIVED
DEC 8 1978
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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: 12-7-78

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

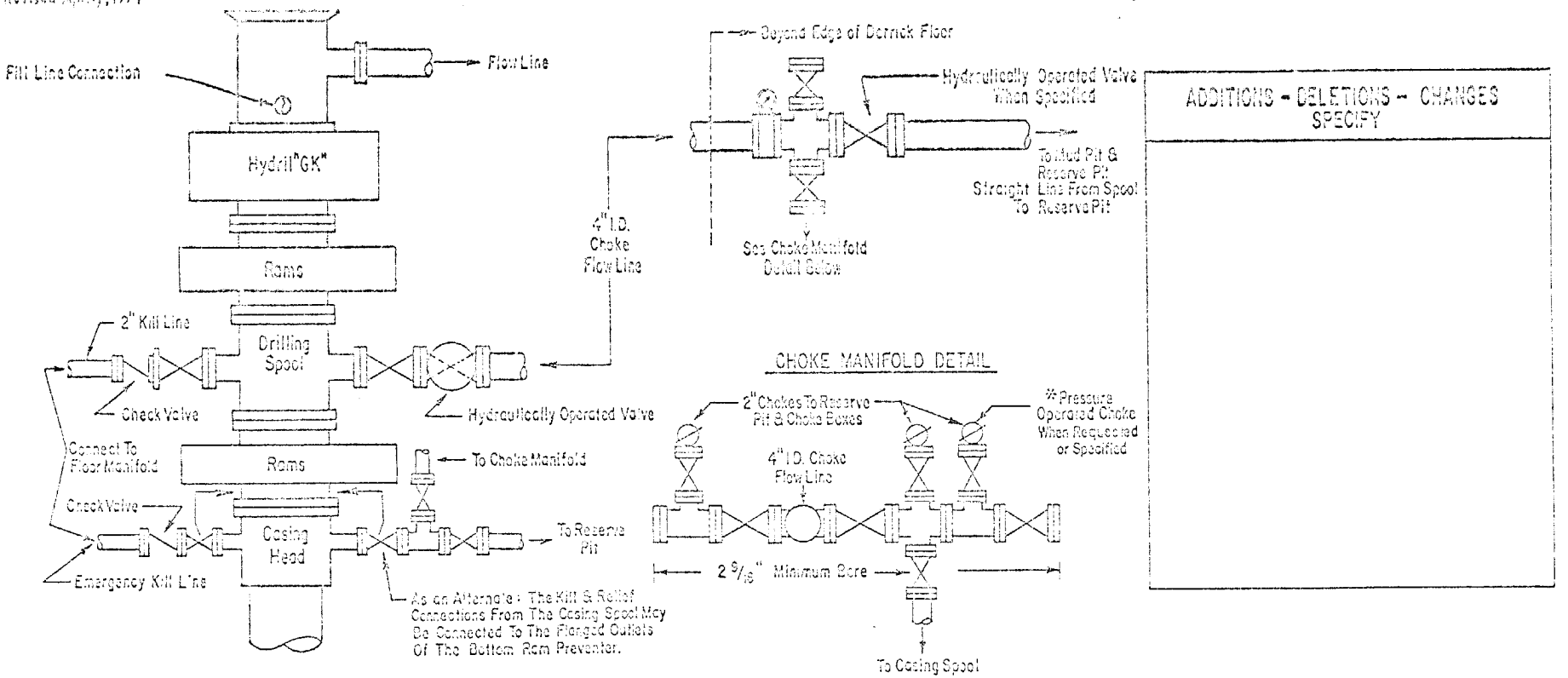
APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED
DEC 13 1978
ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

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.30 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.

Devonian	Undesginated	40

R. C. ANDERSON

Area Production Manager

GULF OIL CORPORATION

December 7, 1978

Gulf Oil Exploration and Production Company

P. O. Box 670
Hobbs, NM 88240

December 8, 1978

Re: Application for Permit to Drill
Proposed C. E. LaMunyon No. 49
2150' FNL and 550' FWL Section 21,
T 23-S, R 37-E, 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. 49

(1) Location: 2150' FNL and 550' FEL Section 21, T-23-S, R-37-E, Lea County, New Mexico.

(2) Elevation of Unprepared Ground: 3303.2' 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 1140', Yates 2520', Grayburg 3560', Glorieta 4955', Tubb 5990', Devonian 7280'.

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

(a) Yates - 2520'

(b) Tubb - 5990'

(c) Devonian - 7280'

(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 Calss 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 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: 0-1080' 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 or less, weight 9.6-10 ppg with 5% KCL. Heavier weight mud will be used if required by well condition.

(12) Testing, Logging and Coring Program:

(a) Formation testing may be done at any depth where samples, drilling rate, or log information indicates 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 February 1, 1979.

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

Yours very truly,

R. C. ANDERSON
Area Production Manager

Attachments
LVT/tb

Gulf Oil Exploration and Production Company

P. O. Box 670
Hobbs, New Mexico 88240

December 7, 1978

Re: Surface Development Plan - Proposed
C. E. LaMunyon Well No. 49, 2150' FNL
and 550' FEL Section 21, T23S, R37E,
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, turn east past ranch house on lease road, the staked location is approximately four miles from U. S. Highway 18.

(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: None required.

(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 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 battery. All lines will be installed above ground level 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 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) There will be a 4' cut from the north, and a 4' fill to the south.

(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 roads 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. Undisturbed ground elevation is 3303.0 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 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 Weir Ranch Corporation. All surface damages will be settled with Wier Ranch Corporation before construction begins.

(12) OPERATOR'S REPRESENTATIVES:

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 Guld Oil Corporation
P.O. Box 670
Hobbs, New Mexico 88240
Telephone: 505/393-4121
Area Production Manager: R. C. Anderson

(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 Guld Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12-07-78
Date

R. C. ANDERSON
Area Production Manager

Attachments
HNH/lh

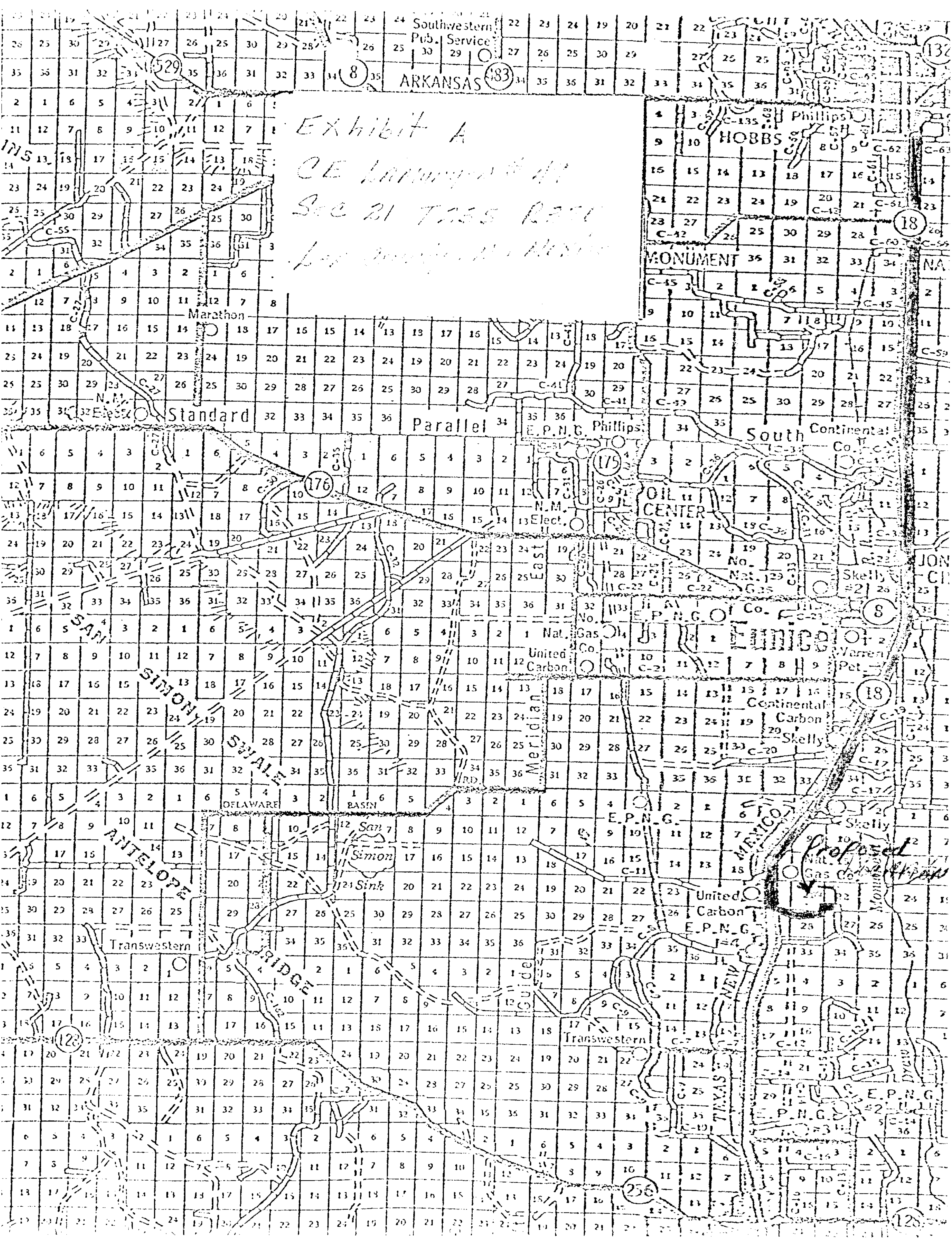
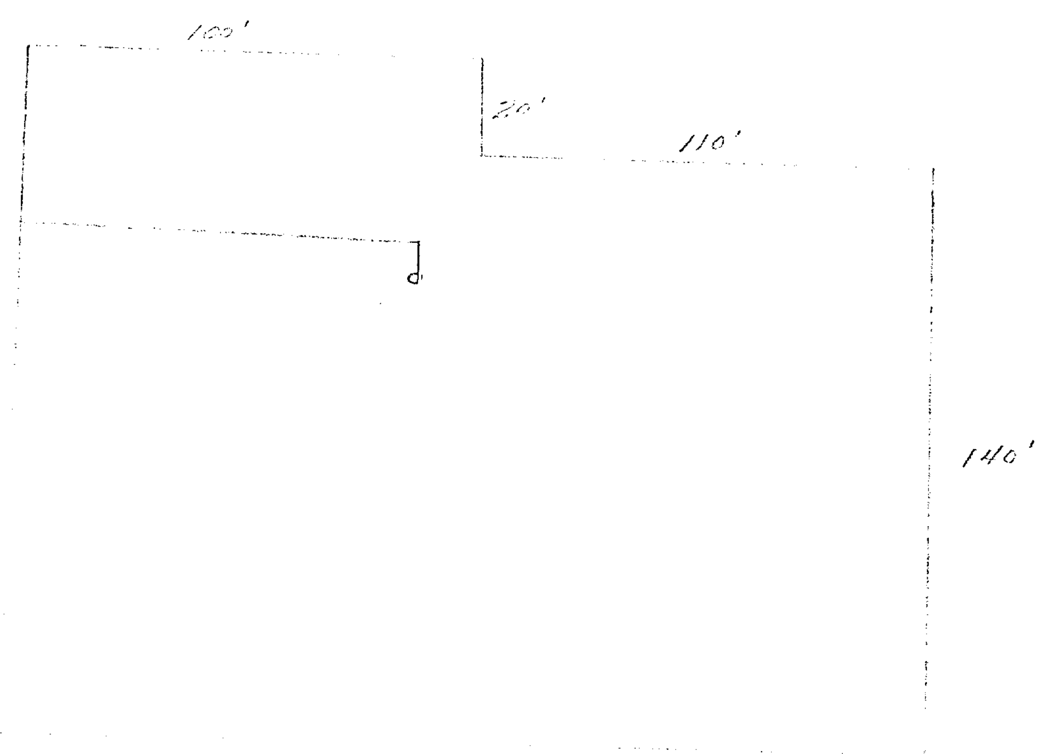


Exhibit A
Southwestern Pub. Service
ARKANSAS
HOBBS
Phillips
MONUMENT
Marathon
N.M. Elect.
Standard
Parallel
E.P.N.G.
Phillips
South
Continental Co.
OIL CENTER
N.M. Elect.
East
Meridian
No. Nat. Gas Co.
Skelly #2
Co.
E.P.N.G.
Eunice
Nat. Gas Co.
United Carbon
Warren Pet.
Continental Carbon
Skelly
SAN SIMON SWALE
DELAWARE BASIN
ANTELOPE RIDGE
San Simon Sink
E.P.N.G.
Skelly
Nat. Gas Co.
United Carbon
E.P.N.G. #4
Transwestern
Guide
Transwestern
NEW MEXICO
TEXAS
E.P.N.G. #2
E.P.N.G. #3
Proposed

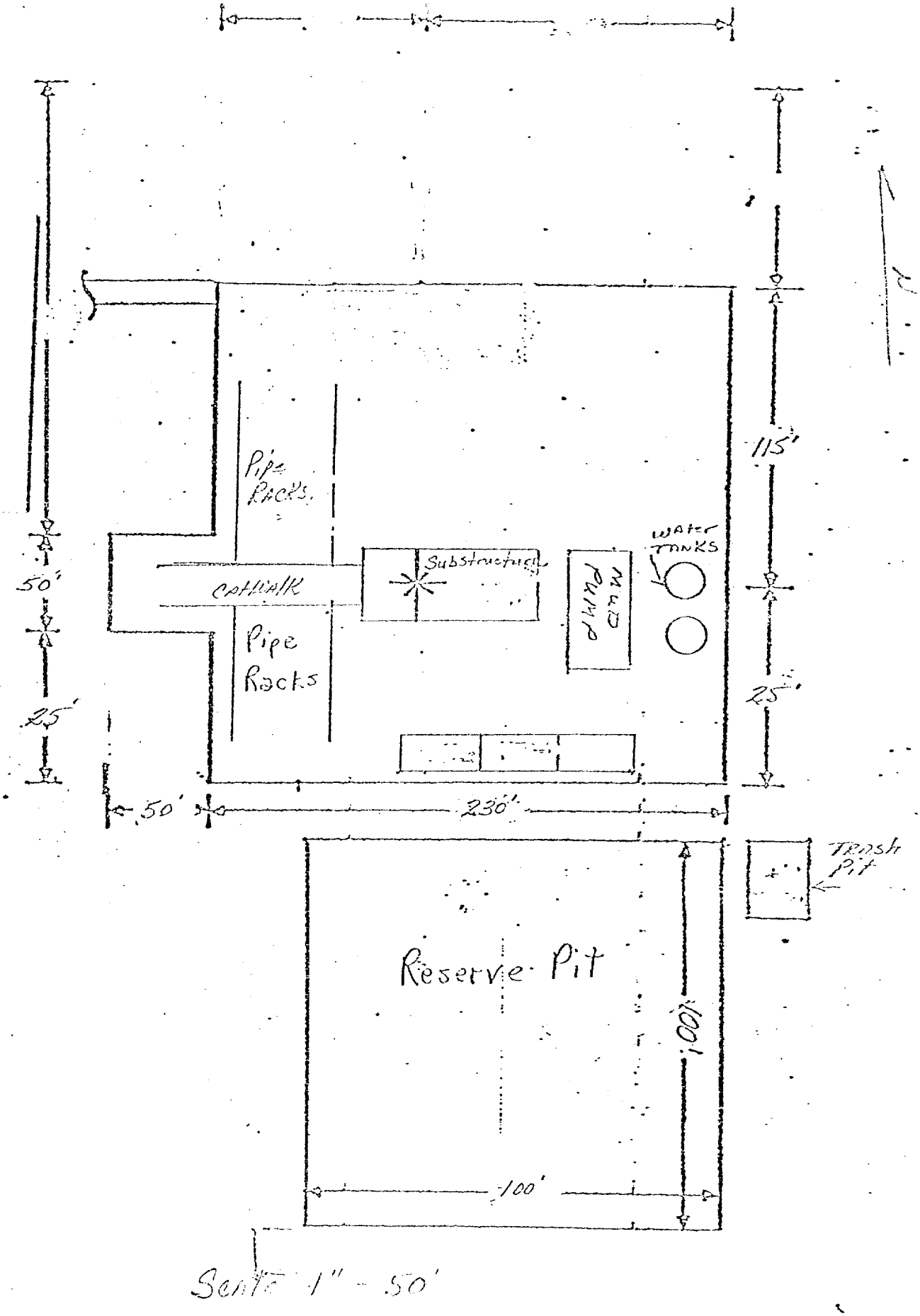
Existing Roads
Proposed Location
Caliche pit
Residence
Water Well

Exhibit B



Scale 1" = 50'

Exhibit C
Production Pad Layout
[illegible]
Sec 21 T23S R34E
Lea County, New Mexico



Scale 1" = 50'

Exhibit D

Pad Layout

Gulf Oil Exploration and Production Company

R. C. Anderson
[illegible]

P. O. Box 670
Hobbs, NM 88240

December 8, 1978

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 p[illegible] for surface restoration associated with the drilling of our C. [illegible]. Lahunyon Well No. 49 to be located 2150 feet from the north line and 550 feet from the west line of Section 21, 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,

R. C. Anderson

RLV:[illegible]

Subscribed and sworn to before me this 8th day of December, 1978.

[illegible] SEAL

[illegible]
Notary Public

My Commission Expires: 08-31-82

Lea County, New Mexico