

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-025-27123

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## 5. LEASE DESIGNATION AND SERIAL NO.

LC 032096 (a)

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

A.M. LOCKHART

## 9. WELL NO.

3

## 10. FIELD AND POOL, OR WILDCAT

PENROSE-SKELLY

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

SEC. 17, T21S., R37E.

## 12. COUNTY OR PARISH

LEA

## 13. STATE

NEW MEXICO

## 2. NAME OF OPERATOR

CAMPBELL &amp; HEDRICK

## 3. ADDRESS OF OPERATOR

P.O. BOX 401 - MIDLAND, TEXAS 79702

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

At surface 990' Fr. So. Line and 990' Fr. W. Line Sec. 17, T21S.,  
R37E, N.M.P.M.  
At proposed prod. zone  
Same

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

Approximately 2½ Miles Northwest of Eunice, New Mexico

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

330'

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

330'

## 16. NO. OF ACRES IN LEASE

80

## 19. PROPOSED DEPTH

4200'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3491' G.L. (ESTIMATE)

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

On Approval Or Rig  
AVAILABILITY

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12½"	8 5/8" O.D.	24#	305' ±	Circulate (200 Sacks)
7 7/8"	5½" O.D.	15.5	4200' ±	650 Sacks

Set surface csg. w/fresh water mud. Drill remainder of hole w/salt water starch mud.  
Blowout preventer will be installed and tested before drlg. Plug on surface csg.  
It will be tested on each trip thereafter until oil string has been run.

RECEIVED

OCT 20 1980

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

TITLE PARTNER &amp; PET. ENGR.

DATE 9-24-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

(Sigs. &amp; Sd.) GEORGE H. STEWART

APPROVED BY

TITLE

DATE

OCT 20 1980

CONDITIONS OF APPROVAL, IF ANY:

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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

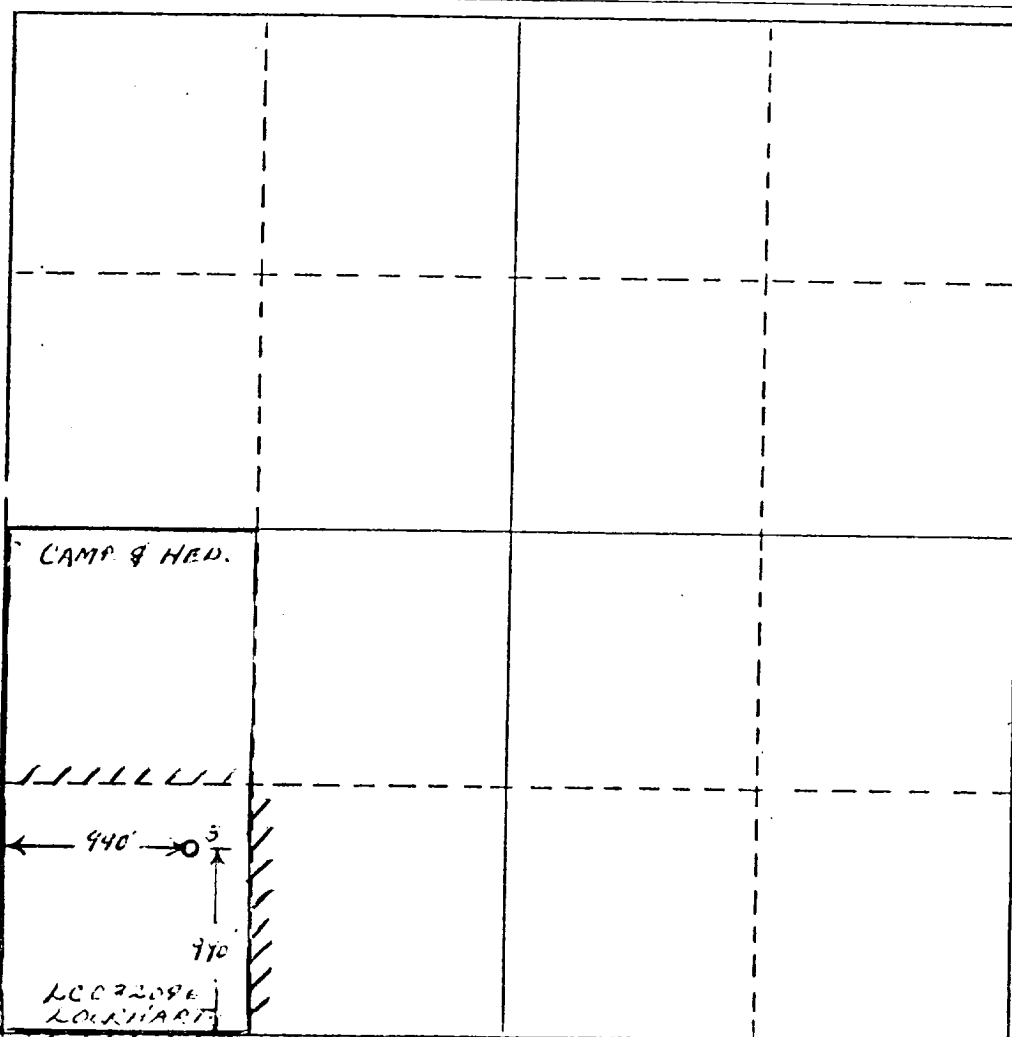
Operator <b>CAMPBELL &amp; HEDRICK</b>			Lease <b>A.M. LOCKHART</b>		Well No. <b>3</b>
Unit Letter <b>M</b>	Section <b>17</b>	Township <b>21S.</b>	Range <b>37E.</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>990'</b> feet from the <b>SOUTH</b> line and <b>990</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>3491'</b>	Producing Formation <b>GRAYBURG</b>		Pool <b>PENROSE SKELLY</b>		Dedicated Acreage: <b>40</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 \_\_\_\_\_

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 Division.



#### CERTIFICATION

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

Name  
*L. B. Langhelle*

Position  
**PARTNER & PET. ENGR.**

Company  
**CAMPBELL & HEDRICK**

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  
*8/18/80*

Registered Professional Engineer  
and/or Land Surveyor

*John Langhelle*  
Certificate No.  
APPROVED BY: *J.D. RAMEY*

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

# CAMPBELL & HEDRICK

P. O. BOX 491 220 MID AMERICA BLDG  
MIDLAND, TEXAS 79701

August 13, 1980

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

Re: Application For Permit To  
Drill Campbell & Hedrick  
Lockhart #3, Lea Co., N.M.

Gentlemen:

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

Well: Lockhart #3

1. LOCATION: 990' FSL & 990' FWL Sec. 17, T21S., R37E., Lea Co., New Mexico.
2. ELEVATION OF UNPREPARED GROUND: 3491' (Estimate)
3. GEOLOGIC NAME OF SURFACE FORMATION: Quaternary Alluvium.
4. TYPE DRILLING TOOLS: Rotary.
5. PROPOSED DRILLING DEPTH: 4200'
6. ESTIMATED TOP OF GEOLOGIC MARKERS: Anhydrite 1220', Salt 1400', Base Salt 2530', Yates 2660', Grayburg 3675', San Andres 3890'.
7. ESTIMATED DEPTHS AT WHICH ANTICIPATED GAS & OIL FORMATIONS ARE EXPECTED: Penrose-Skelly 3675', San Andes 3890'.
8. CASING PROGRAMS:
  - (a) Surface - 8 5/8", 24#, H40, @ 300' ±
  - (b) Production - 5 1/2", 15.5#, J55, @ 4200'
9. CASING CEMENTING PROGRAM:
  - (a) Surface Casing Will Be Cemented W/200Sacks.
  - (b) Oil String Cemented W/800 Sacks.
10. PRESSURE CONTROL EQUIPMENT: The Minimum Specifications For Pressure Control Equipment Is 3000#. Drawing Schedule "C".
11. CIRCULATING MEDIA: 0-300 Fresh Water Native Mud; 300' - 3500' Salt Water Native Mud; 3500' - 4200' Starch Mud.
12. TESTING & LOGGING PROGRAMS:
  - (a) No DST'S To Be Run.
  - (b) Electrical Log To Be Run @ TD.
  - (c) No Coring
13. ABNORMAL PRESSURE OR TEMPERATURE & HYDROGEN SULFIDE GAS: We Do Not Anticipate Any Abnormal Pressure Or Temperature. The Presence Of Hydrogen Sulfide Gas Is Not Anticipated.
14. ESTIMATED SPUDDING DATE: As Soon As Rig Is Available After Approval Of Application.
15. OTHER FACETS OF PROPOSED OPERATIONS: None.

Joe H. Campbell  
Partner & Pet. Engr.

JHC/dn