

Artesia, NM 88210

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYRECEIVED  
SUBMIT IN TRI-STATE  
Other instruct. on30-015-24233  
Form approved.  
Budget Bureau No. 42-R1425.

AUG 23 1982

O. C. D.

## 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

C &amp; K Petroleum, Inc. ✓

## 3. ADDRESS OF OPERATOR

P.O. Drawer 3546, Midland, TX 79702

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

At surface

1650' FNL &amp; 1650' FEL

At proposed prod. zone

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

16 miles Southwest of Carlsbad

## 15. DISTANCE FROM PROPOSED\*

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

1650'

## 16. NO. OF ACRES IN LEASE

640

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL  
640 (2 wells)

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

2000'

## 19. PROPOSED DEPTH

12,000

## 20. ROTARY OR CABLE TOOLS

Rotary

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

3288.5 GR

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

June 15, 1982

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17-1/2       | 13-3/8         | 48#, H-40       | 450           | 400 SX CIRCULATE   |
| 12-1/4       | 8-5/8          | 24, 28, 32#     | 5500          | 2000 SX CIRCULATE  |
| 7-7/8        | 5-1/2          | 17#             | 12,000        | 600 SX             |

We propose to drill this well to 12,000' or to a depth sufficient to test the Morrow formation. The surface formation is believed to be quaternary alluvium on Permian Ochoan rocks and estimated tops of important geologic markers are as follows:

|             |      |        |        |         |        |
|-------------|------|--------|--------|---------|--------|
| Bone Spring | 5300 | Strawn | 10,065 | Barnett | 11,630 |
| Wolfcamp    | 8450 | Morrow | 10,800 |         |        |

We expect to encounter gas at 11,165 - 600.

One DST will be run in the Morrow and we will run open hole logs from 0 to TD, CAVL and Guard logs.

Abnormal pressure may be encountered in the Morrow.

Refer to Exhibit "E" for a schematic diagram of blowout equipment

Refer to Exhibit "F" for mud program.

GAS SALES 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.

Michael W. Gore

SIGNED

TITLE Drilling Superintendent

DATE July 19, 1982

(This space for Federal or State Office Use)

PERMIT NO.

(Orig. Sgd.) GEORGE H. STEWART

APPROVAL DATE

AUG 19 1982

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

\*See Instructions On Reverse Side

RECEIVED  
JUL 21 1982  
OIL & GAS  
GEOLOGICAL SURVEYP.O. Box  
I.D. #  
APR 11 1982  
8/24/82

## 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.

★ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-398

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.

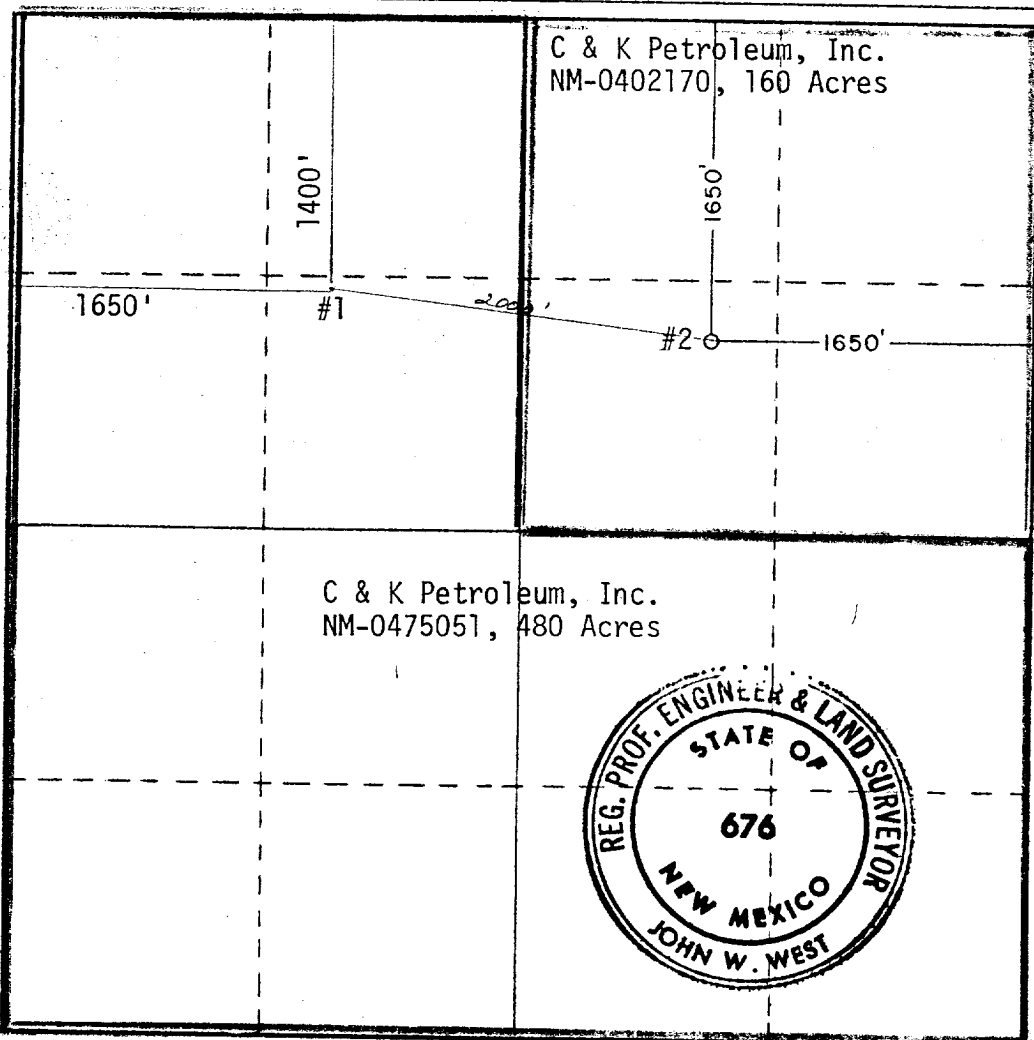
|                                                                                                    |                               |                      |                         |                                 |               |
|----------------------------------------------------------------------------------------------------|-------------------------------|----------------------|-------------------------|---------------------------------|---------------|
| Operator<br>C & K Petroleum, Inc.                                                                  |                               |                      | Lease<br>Fed. 22 Com.   |                                 | Well No.<br>2 |
| Unit Letter<br>G                                                                                   | Section<br>22                 | Township<br>24 South | Range<br>26 East        | County<br>Eddy                  |               |
| Actual Footage Location of Well:<br>1650 feet from the North line and 1650 feet from the East line |                               |                      |                         |                                 |               |
| Ground Level Elev.<br>3288.5'                                                                      | Producing Formation<br>Morrow |                      | Pool<br>White City Penn | Dedicated Acreage:<br>640 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 Communitized

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.

*Michael W. Gore*  
Name

MICHAEL W. GORE

Position

DRILLING SUPERINTENDENT

Company

C & K Petroleum, Inc.

Date

JULY 19, 1982

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.

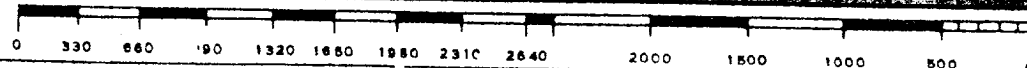
Date Surveyed

Oct. 5, 1981

Registered Professional Engineer and/or Land Surveyor

*John W. West*

Certificate No. JOHN W. WEST 676  
PATRICK A. ROMERO 6868  
Ronald J. Eidson 3239



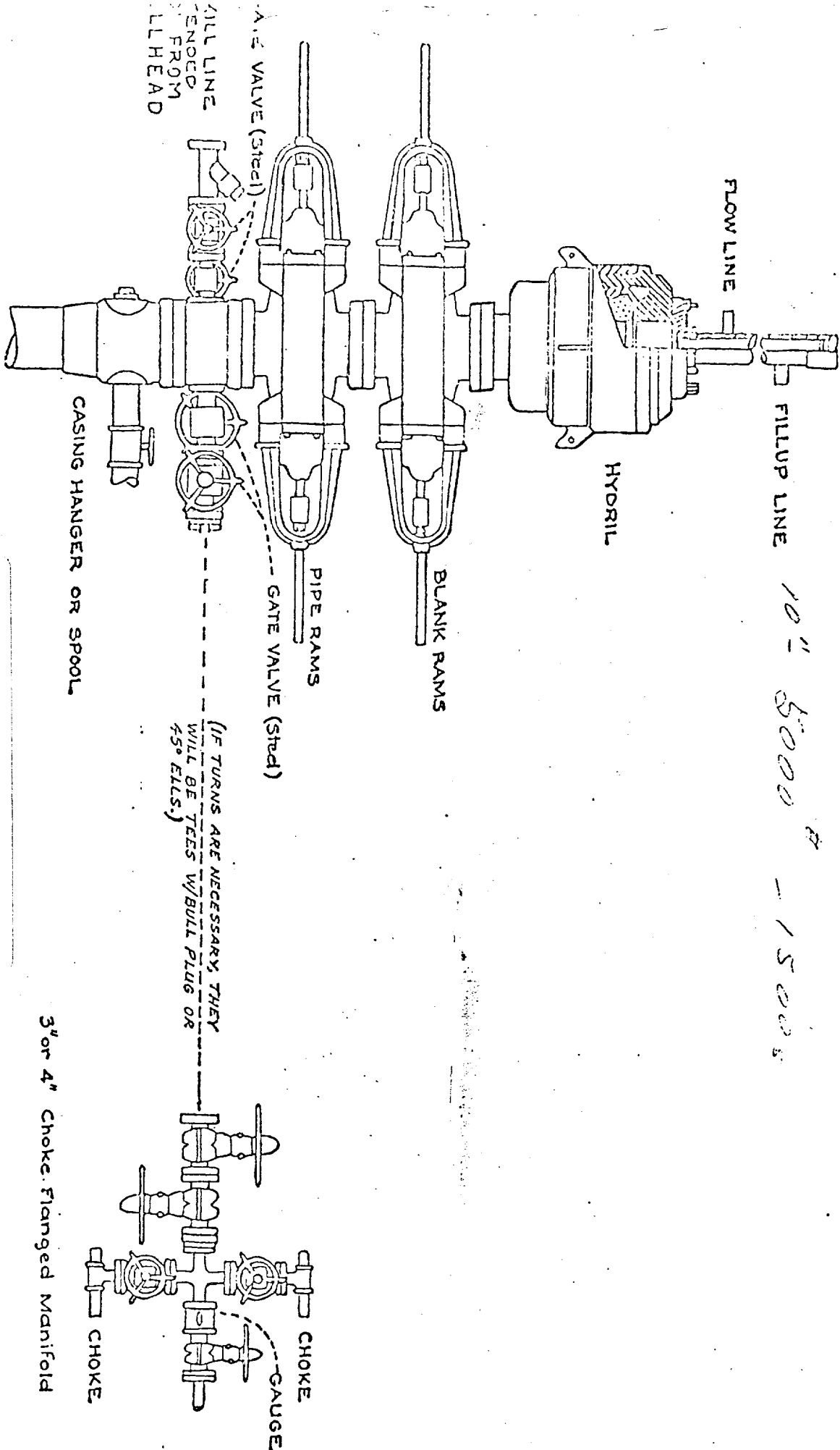


EXHIBIT "E" - Blowout Preventer  
C&K Petroleum, Federal 22 Com #2,  
Sec. 22, 24S, 26E,  
Eddy County, NM

EXHIBIT "F" - C&K Petroleum,  
Federal 22 Com #2, Sec. 22,  
24S, 26E, Eddy County, NM

RECOMMENDED DRILLING FLUID PROGRAM

| Depth<br>ft     | Mud Weight<br>ppg | Viscosity<br>sec qt | API Filtrate<br>ml |                                                                                                                                           |  |  |
|-----------------|-------------------|---------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 0' - 450'       | 8.7-9.0           | 34-38               | NC                 | Spud with Drilling Gel and Lime, maintaining as needed to set surface pipe. ✓                                                             |  |  |
| 450' - 5600'    | 10.0              | 28                  | NC                 | Drill out with 10.0 ppg brine water, adding Lime for pH control. Use Salt Gel and Paper sweeps for fill removal. ✓                        |  |  |
| 5600' - 9000'   | 9.4-9.6           | 28                  | NC                 | Drill with cut brine water, using Lime for pH. Add Paper as needed for seepage and Salt Gel-Paper sweeps for hole cleaning. ✓             |  |  |
| 9000' - 11200'  | 10.0-10.2         | 28                  | NC                 | Displace with 10.0 ppg brine, using Caustic Soda for pH control. Adjust the water weights as needed with Soda Ash for Strawn pressures. ✓ |  |  |
| 11200' - 12000' | 10.-10.2          | 34-36               | 5-7                | Before drilling the Morrow, add Sea Mud, Drispac, Soda Ash and Caustic Soda to obtain and maintain the above properties. ✓                |  |  |