

**NEW MEXICO OIL CONSERVATION COMMISSION**  
Santa Fe, New Mexico

(Form C-104)  
Revised 7/1/57

**REQUEST FOR (OIL) - ~~(GAS)~~ ALLOWABLE**

New Well  
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Midland, Texas February 22, 1962  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Hill & Meeker T. P. State "22" Well No. 1, in NE  $\frac{1}{4}$  NW  $\frac{1}{4}$ ,  
(Company or Operator) (Lease)  
C, Sec. 22, T. 10 S, R. 36 E, NMPM., South Crossroads (Dev.) Pool  
Unit Letter

Lea

Please indicate location:

|   |   |   |   |
|---|---|---|---|
| D | C | B | A |
|   | X |   |   |
| E | F | G | H |
| L | K | J | I |
| M | N | O | P |

County. Lea Date Spudded 12-23-61 Date Drilling Completed 2-15-62  
Elevation 4027 D.F. Total Depth 12,260 FBTD -

Top Oil/Gas Pay 12,245 Name of Prod. Form. Devonian

PRODUCING INTERVAL -

Perforations NO

Open Hole 12,249 - 12,260' Depth Casing Shoe 12,249' Depth Tubing 12,150'

OIL WELL TEST -

Natural Prod. Test: 324 bbls. oil, NO bbls water in 24 hrs, - min. Size 10/64 Choke

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of Choke load oil used): 0 bbls. oil, 0 bbls water in 0 hrs, 0 min. Size 0

GAS WELL TEST -

Natural Prod. Test: NO MCF/Day; Hours flowed        Choke Size       

Tubing, Casing and Cementing Record

| Size          | Feet          | Sax              |
|---------------|---------------|------------------|
| <u>13-3/8</u> | <u>313</u>    | <u>(Cif) 300</u> |
| <u>8-5/8</u>  | <u>4208</u>   | <u>250</u>       |
| <u>5-1/2</u>  | <u>12,249</u> | <u>500</u>       |
| <u>2-3/8</u>  | <u>12,150</u> | <u>-</u>         |

Method of Testing (pitot, back pressure, etc.):       

Test After Acid or Fracture Treatment:        MCF/Day; Hours flowed       

Choke Size        Method of Testing:       

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): NO TREATMENT

Casing Tubing Date first new oil run to tanks Feb. 19, 1962.  
Press.        Press.       

Oil Transporter The Permian Corporation

Gas Transporter NONE

Remarks:       

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved       , 19       

Hill & Meeker

(Company or Operator)

OIL CONSERVATION COMMISSION

By: AD Manning  
(Signature)

Title Production Clerk

Send Communications regarding well to:

Name Hill & Meeker

Address 519 Midland Savings Bldg.,  
Midland, Texas

1. The first part of the paper is devoted to the study of the

problem of the existence of solutions of the system of equations

(1.1) 
$$\frac{dx}{dt} = A(x)u, \quad \frac{dy}{dt} = B(x)v,$$

where  $A(x)$  and  $B(x)$  are  $n \times n$  matrices,  $u$  and  $v$  are  $n$ -vectors, and  $x$  and  $y$  are  $n$ -vectors.

The matrices  $A(x)$  and  $B(x)$  are assumed to be continuous and to satisfy the conditions

$$A(x) = A_0 + A_1 x + \dots + A_k x^k, \quad B(x) = B_0 + B_1 x + \dots + B_k x^k,$$

where  $A_0, A_1, \dots, A_k$  and  $B_0, B_1, \dots, B_k$  are constant matrices.

The second part of the paper is devoted to the study of the

problem of the existence of solutions of the system of equations

(1.2) 
$$\frac{dx}{dt} = A(x)u, \quad \frac{dy}{dt} = B(x)v,$$

where  $A(x)$  and  $B(x)$  are  $n \times n$  matrices,  $u$  and  $v$  are  $n$ -vectors, and  $x$  and  $y$  are  $n$ -vectors.

The matrices  $A(x)$  and  $B(x)$  are assumed to be continuous and to satisfy the conditions

(1.3) 
$$A(x) = A_0 + A_1 x + \dots + A_k x^k,$$

where

(1.4) 
$$A_0, A_1, \dots, A_k$$

are constant matrices.

The third part of the paper is devoted to the study of the