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Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

OIL CONSERVATION DIVISION

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

I.

|  |   |
|--|---|
| Operator<br>PETRUS OIL COMPANY, L.P.   | Well API No.  |
| Address<br>12377 Merit Drive, STE. 1600, Dallas, Texas 75251   |   |
| Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)  |   |
| New Well <input type="checkbox"/>  | Change in Transporter of:   |
| Recompletion <input type="checkbox"/>  | Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>               |
| Change in Operator <input checked="" type="checkbox"/>   | Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/> |
| If change of operator give name and address of previous operator Mobil Producing Texas & New Mexico Inc. (Effective date 7-1-89) |   |

II. DESCRIPTION OF WELL AND LEASE

|                                   |                  |   |  |                       |
|-----------------------------------|------------------|---|--|-----------------------|
| Lease Name<br>Humphrey Queen Unit | Well No.<br>1    | Pool Name, Including Formation<br>Langlie Mattix 7 Rivers Queen | Kind of Lease<br>State, Federal or Fee | Lease No.             |
| Location                          |                  |   |  |                       |
| Unit Letter<br>A                  | : 330            | Feet From The<br>North  | Line and 330                           | Feet From The<br>East |
| Section<br>4                      | Township<br>25-S | Range<br>37-E   | , NMPM, Lea County                     |                       |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

|  |  |
|--|--|
| Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>         | Address (Give address to which approved copy of this form is to be sent) |
| Mobil Oil Company Shell Pipeline   | P. O. Box 900, Dallas, TX 75221  |
| Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) |
| El Paso Natural Gas Company  | Box 1492, El Paso, TX 79978  |
| If well produces oil or liquids, give location of tanks.   | Unit   Sec.   Twp.   Rge.   Is gas actually connected?   When ?          |
| F & K  | 4   25-S   37-E   Yes   Unknown  |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

|                                     |                             |          |                 |          |                   |           |            |            |
|-------------------------------------|-----------------------------|----------|-----------------|----------|-------------------|-----------|------------|------------|
| Designate Type of Completion - (X)  | Oil Well                    | Gas Well | New Well        | Workover | Deepen            | Plug Back | Same Res'v | Diff Res'v |
| Date Spudded                        | Date Compl. Ready to Prod.  |          | Total Depth     |          | P.B.T.D.          |           |            |            |
| Elevations (DF, RKB, RT, GR, etc.)  | Name of Producing Formation |          | Top Oil/Gas Pay |          | Tubing Depth      |           |            |            |
| Perforations                        |                             |          |                 |          | Depth Casing Shoe |           |            |            |
| TUBING, CASING AND CEMENTING RECORD |                             |          |                 |          |                   |           |            |            |
| HOLE SIZE                           | CASING & TUBING SIZE        |          | DEPTH SET       |          | SACKS CEMENT      |           |            |            |
|                                     |                             |          |                 |          |                   |           |            |            |
|                                     |                             |          |                 |          |                   |           |            |            |
|                                     |                             |          |                 |          |                   |           |            |            |

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

|                                |                 |   |            |
|--------------------------------|-----------------|---|------------|
| Date First New Oil Run To Tank | Date of Test    | Producing Method (Flow, pump, gas lift, etc.) |            |
| Length of Test                 | Tubing Pressure | Casing Pressure                               | Choke Size |
| Actual Prod. During Test       | Oil - Bbls.     | Water - Bbls.                                 | Gas- MCF   |

GAS WELL

|                                  |                           |                           |                       |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| Actual Prod. Test - MCF/D        | Length of Test            | Bbls. Condensate/MMCF     | Gravity of Condensate |
| Testing Method (pilot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size            |

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Dora McGough  
Signature  
Dora McGough Regulatory Coordinator  
Printed Name  
June 30, 1989 214/788-3378  
Date Telephone No.

OIL CONSERVATION DIVISION  
JUL 10 1989

Date Approved  
By ORIGINAL SIGNED BY JERRY SEXTON  
DISTRICT I SUPERVISOR  
Title

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Figure 1 illustrates the experimental setup. A subject is seated at a table, viewing a video screen. A video camera is positioned above the screen. A light source is positioned to the left of the screen. A target is positioned on the screen. A ruler is placed on the table. A scale bar is shown at the bottom right.

[illegible]

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JUL 3 1989  
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