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| | GAS |
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| PRORATION OFFICE | |

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-11
Effective 1-1-65

I. Operator - CONTINENTAL OIL
Address 1001 N. TURNER HOBBS, NEW MEXICO 88240
Reason(s) for filing (Check proper box)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐
Other (Please explain) Correction to report submitted to NMOCC 4-18-74. Previous report gave CSG pressure as ACF.
If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|-----------------------|-------------|-------------------------------------|-------------------------|---------------|
| Lease Name | Well No. | Pool Name, Including Formation | Kind of Lease | Lease No. |
| <u>AXI Apache O</u> | <u>3</u> | <u>South Blanco Pictured Cliffs</u> | <u>INDIAN</u> | <u>122</u> |
| State, Federal or Fee | | | | |
| Location | | | | |
| Unit Letter | <u>M</u> | Feet From The | <u>S</u> | Line and |
| | <u>1120</u> | | <u>790</u> | Feet From The |
| | | | <u>W</u> | |
| Line of Section | <u>9</u> | Township | <u>25N</u> | Range |
| | | | <u>4W</u> | |
| | | | <u>NMPM, Rio Arriba</u> | County |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

| | | |
|--|--|------|
| Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) | |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> | Address (Give address to which approved copy of this form is to be sent) | |
| <u>Southern Union Gas Company</u> | <u>Fidelity Union Tower, DALLAS, TX 75201</u> | |
| If well produces oil or liquids, give location of tanks. | Unit | Sec. |
| | | Twp. |
| | | Rge. |
| | | |
| Is gas actually connected? | When | |
| <u>No</u> | <u>Awaiting Connection</u> | |

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. |
| | | <u>X</u> | <u>X</u> | | | | | |
| Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. | | | | | |
| <u>7-12-73</u> | <u>9-5-73</u> | <u>3950</u> | <u>3904</u> | | | | | |
| Elevations (DF, RKB, RT, GR, etc.) | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth | | | | | |
| <u>7290 Gr, 7308 KB</u> | <u>Pictured CLIFFS</u> | <u>3682</u> | <u>3754</u> | | | | | |
| Perforations | | | Depth Casing Shoe | | | | | |
| <u>5690-3754</u> | | | <u>3949</u> | | | | | |
| TUBING, CASING, AND CEMENTING RECORD | | | | | | | | |
| HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT | | | | | |
| <u>12 1/4</u> | <u>8 3/8</u> | <u>227</u> | <u>150</u> | | | | | |
| <u>7 1/8</u> | <u>4 1/2</u> | <u>3949</u> | <u>100</u> | | | | | |
| | <u>1 3/4</u> | <u>3754</u> | | | | | | |

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

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

| | | | |
|---------------------------------|-----------------|-------------------------------|----------|
| Date First New Oil Run To Tanks | Date of Test | Producing Method (Flow, etc.) | |
| | | | |
| Length of Test | Tubing Pressure | Casing Pressure | Gas 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 |
| <u>1064</u> | <u>3 HRS</u> | <u>0</u> | |
| Testing Method (pitot, back pr) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size |
| <u>ACF</u> | <u>925</u> | <u>947</u> | <u>3/4"</u> |

VI. CERTIFICATE OF COMPLIANCE

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

Robert Paul
(Signature)
OFFICE MANAGER
(Title)
OCTOBER 6, 1974
(Date)

OIL CONSERVATION COMMISSION

APPROVED OCT 10 1974, 19

BY Original Signed by Harry C. Arnold

TITLE SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT () ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | | | | | | | | |
|---|------------|--------------------------------------|-------------------------|---|--------------------|---------------------------------------|-------------------|-----------------------------------|-----------------------|----------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special | | | | | | | | | | Test Date 9-5-73 | |
| Company Continental Oil Company | | | | | | Connection Unconnected | | | | | |
| Pool South Blanco | | | | | | Formation Pictured Cliffs | | | | | |
| Completion Date 9-5-73 | | | Total Depth 3950' KB | | | Plug Back TD 3904' KB | | | Elevation 7302' KB | | |
| Farm or Lease Name AXI Apache "O" | | | | | | Well No. 3 | | | | | |
| Csg. Size 4.5 | Wt. 105 | d 1.380 | Set At 3949 | Perforations: From 3690' To 3754' KB | | | | Unit Sec. Twp. Rye. M 9 25N 4W | | | |
| Tbg. Size 1.250 | Wt. 2.4 | d 1.380 | Set At 3754' KB | Perforations: From To | | | | Unit Sec. Twp. Rye. M 9 25N 4W | | | |
| Type Well - Single - Broadhead - G.G. or G.O. Multiple Single | | | | | | | | Packer Set At None | | County Rio Arriba | |
| Producing Thru Tubing | | Reservoir Temp. °F 107 @ 3710' GR | | Mean Annual Temp. °F 12.2 | | Baro. Press. - P _a 12.2 | | State New Mexico | | | |
| L 3742 | H 3742 | Gg .680 | % CO ₂ | % N ₂ | % H ₂ S | Proves 3/4" | Material Choke | Nipple | | | |

| FLOW DATA | | | | | | | TUBING DATA | | CASING DATA | | Duration of Flow |
|-----------|-------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|----------------------|
| NO. | Prover Line Size | X | Orifice Size | Press. p.s.l.g. | Diff. h _w | Temp. °F | Press. p.s.l.g. | Temp. °F | Press. p.s.l.g. | Temp. °F | |
| SI | | | | | | | 925 | | 947 | | S-I 7 days 3 hrs. |
| 1. | Choke Nipple 3/4" | | 59 | | | 52 | 59 | | 448 | | |
| 2. | | | | | | | | | | | |
| 3. | | | | | | | | | | | |
| 4. | | | | | | | | | | | |
| 5. | | | | | | | | | | | |

| RATE OF FLOW CALCULATIONS | | | | | | | |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|---|----------------------|
| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P _m | Flow Temp. Factor Ft. | Gravity Factor F _g | Super Compress. Factor, F _{pv} | Rate of Flow Q, Mcfd |
| 1 | 9.604 | | 71.2 | 1.008 | 1.213 | 1.019 | 852 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| | | | | | |
|-----|----------------|----------|----------------|------|--|
| NO. | P _c | Temp. °R | T _r | Z | Gas Liquid Hydrocarbon Ratio _____ wcf/bbl. |
| 1. | .280 | 512 | 1.401 | .964 | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |
| 2. | | | | | Specific Gravity Separator Gas _____ XXXXXXXXXX |
| 3. | | | | | Specific Gravity Flowing Fluid _____ XXXXX .680 |
| 4. | | | | | Critical Pressure _____ P.S.I.A. _____ P.S.I.A. |
| 5. | | | | | Critical Temperature _____ R _____ R |

| | | | | | | |
|---|-----------------------------|----------------|-----------------------------|---|-----------------------------------|--|
| P _c 959.2 P _c ² 920.1 | | | | | (1) $\frac{P_c^2}{P_c^2 - P_w^2}$ | (2) $\frac{P_c^2}{P_c^2 - P_w^2}^n = 1.249$ |
| NO. | P _c ² | P _w | P _w ² | P _c ² - P _w ² | AOF = Q | <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> RECEIVED OCT 17 1974 OIL CON. COM. DIST. 3 </div> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center; margin-left: 20px;"> RECEIVED SEP 24 1973 OIL CON. COM. DIST. 3 </div> |
| 1 | 5.069 | 460.2 | 211.8 | 708.3 | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| | | | | | |
|--------------------|------|---------------|----------------|----------|-----|
| Absolute Open Flow | 1064 | Mcfd @ 15.025 | Angle of Slope | Slope, n | .85 |
| Remarks: | | | | | |

| | | | |
|-------------------------|-------------------------------|--------------------------------|-------------|
| Approved By Commission: | Conducted By: E. B. Errett | Calculated By: E. B. Errett | Checked By: |
|-------------------------|-------------------------------|--------------------------------|-------------|

NYOCC Aztec(3), Humble, BEA, File