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

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

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

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

### REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

|                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|
| Operator<br><b>MERIDIAN OIL INC.</b>                                                                                                                                                                                                                                                                                                                                                                                                 |  | Well API No. |
| Address<br><b>P. O. Box 4289, Farmington, New Mexico 87499</b>                                                                                                                                                                                                                                                                                                                                                                       |  |              |
| Reason(s) for Filing (Check proper box)<br>New Well <input type="checkbox"/> Change in Transporter of: <input type="checkbox"/> Other (Please explain)<br>Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input checked="" type="checkbox"/> <b>Effect 6-23-90</b><br>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<br><b>Union Texas Petroleum Corporation, P. O. Box 2120, Houston, TX 77252-2120</b>                                                                                                                                                                                                                                                                                 |  |              |

### II. DESCRIPTION OF WELL AND LEASE

|                                                                                                                                                                                                                       |                       |                                                       |                                        |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|----------------------------------------|------------------------------|
| Lease Name<br><b>HUNSAKER</b>                                                                                                                                                                                         | Well No.<br><b>2R</b> | Pool Name, including Formation<br><b>BASIN DAKOTA</b> | Kind of Lease<br>State, Federal or Fee | Lease No.<br><b>SF078506</b> |
| Location<br>Uak Letter <b>B</b> : <b>140</b> Feet From The <b>N</b> Line and <b>1750</b> Feet From The <b>E</b> Line<br>Section <b>26</b> Township <b>31N</b> Range <b>09W</b> , <b>NMPM</b> , <b>SAN JUAN</b> 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"/><br><b>Meridian Oil Inc.</b>                   | Address (Give address to which approved copy of this form is to be sent)<br><b>P. O. Box 4289, Farmington, NM 87499</b>  |      |      |      |                            |       |
| Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/><br><b>Union Texas Petroleum Corp.</b> | Address (Give address to which approved copy of this form is to be sent)<br><b>P.O. Box 2120, Houston, TX 77252-2120</b> |      |      |      |                            |       |
| If well produces oil or liquids, give location of tanks.                                                                                                       | Unit                                                                                                                     | Sec. | Trp. | Rgs. | Is gas actually connected? | When? |

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      |           |            |            |
| Performances                        |                             |          |                 |          | 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                               |           |
| 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.

Signature Leslie Kahwajy  
Printed Name **Leslie Kahwajy** Prod. Serv. Supervisor  
Date **6/15/90** Telephone No. **(505)326-9700**

### OIL CONSERVATION DIVISION

JUL 03 1990

Date Approved \_\_\_\_\_  
By Burt D. Chang  
Title **SUPERVISOR DISTRICT 13**

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.

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND 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<br>12-5-78                |           |                                |  |
| Company<br>SUPRON ENERGY CORPORATION                                                                                   |                       |                         |                             | Connection<br>Southern Union Company |                    |                                     |           |                                |  |
| Pool<br>Blanco                                                                                                         |                       |                         |                             | Formation<br>Mesaverde               |                    |                                     |           | Unit                           |  |
| Completion Date<br>11-16-78                                                                                            |                       | Total Depth<br>7850     |                             | Plug Back TD<br>7696                 |                    | Elevation<br>6411 Gr.               |           | Farm or Lease Name<br>Hunsaker |  |
| Csg. Size<br>7.625<br>5.500                                                                                            | Wt.<br>26.40<br>15.50 | d<br>6.969<br>4.950     | Set At<br>3557<br>3275-7724 | Perforations:<br>From 5066 To 5812   |                    | Well No.<br>2-R                     |           |                                |  |
| Tbg. Size<br>2.0625                                                                                                    | Wt.<br>3.25           | d<br>1.750              | Set At<br>5668              | Perforations:<br>From 5664 To 5668   |                    | Unit Sec. Twp. Rye.<br>B 26 31N 9W  |           |                                |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Dual - Gas - Gas                                            |                       |                         |                             |                                      |                    | Packer Set At<br>7500               |           | County<br>San Juan             |  |
| Producing Thru<br>Tubing                                                                                               |                       | Reservoir Temp. °F<br>8 |                             | Mean Annual Temp. °F                 |                    | Baro. Press. - P <sub>a</sub><br>12 |           | State<br>New Mexico            |  |
| L<br>5650                                                                                                              | H                     | G <sub>g</sub><br>0.650 | % CO <sub>2</sub>           | % N <sub>2</sub>                     | % H <sub>2</sub> S | Prover                              | Meter Run | Taps                           |  |

  

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        | 2"               |   | 3/4"         |                 |                      |          | 515             |          | 494             |          | 14 days          |
| 1.        |                  |   |              |                 |                      |          | 105             | 54°      | 466             |          | 3 hrs.           |
| 2.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 3.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |
| 5.        |                  |   |              |                 |                      |          |                 |          |                 |          |                  |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                               |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1                         | 12.3650               |                  | 117                     | 1.0058                | 0.9608                        | 1.011                                   | 1413                 |
| 2.                        |                       |                  |                         |                       |                               |                                         |                      |
| 3.                        |                       |                  |                         |                       |                               |                                         |                      |
| 4.                        |                       |                  |                         |                       |                               |                                         |                      |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

  

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>f</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.          |
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ X X X X X X X X |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X X X X X       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.      |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                 |

  

|                    |                                     |                |                             |                                                           |                                            |                                                             |
|--------------------|-------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 527 | P <sub>c</sub> <sup>2</sup> 277,729 |                |                             |                                                           |                                            |                                                             |
| NO.                | P <sub>f</sub>                      | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.6397$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.6596$ |
| 1                  |                                     | 478            | 228,484                     | 49,245                                                    |                                            |                                                             |
| 2                  |                                     |                |                             |                                                           |                                            |                                                             |
| 3                  |                                     |                |                             |                                                           |                                            |                                                             |
| 4                  |                                     |                |                             |                                                           |                                            |                                                             |
| 5                  |                                     |                |                             |                                                           |                                            |                                                             |

  

|                         |  |                              |                                 |               |
|-------------------------|--|------------------------------|---------------------------------|---------------|
| Absolute Open Flow 5171 |  | Mcf @ 15.025                 | Angle of Slope $\theta$         | Slope, n 0.75 |
| Remarks:                |  |                              |                                 |               |
| Approved by Commission  |  | Conducted By: John C. Rector | Calculated By: Kenneth E. Roddy | Checked By:   |



**LTR**



**Job separation sheet**