

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
En , Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

| | | |
|--|--|------------------------------|
| Operator Texaco Exploration and Production Inc. | | Well API No. 30 025 30718 |
| Address P. O. Box 730 Hobbs, New Mexico 88240-2528 | | |
| Reason(s) for Filing (Check proper box) <input checked="" type="checkbox"/> Other (Please explain) EFFECTIVE 6-1-91 | | |
| 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 checked="" type="checkbox"/> Condensate <input type="checkbox"/> | |
| If change of operator give name and address of previous operator Texaco Producing Inc. P. O. Box 730 Hobbs, New Mexico 88240-2528 | | |

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|---|-----------------|--|---|---------------------|
| Lease Name VACUUM GRAYBURG SAN ANDRES U | Well No. 158 | Pool Name, Including Formation VACUUM GRAYBURG SAN ANDRES | Kind of Lease State, Federal or Fee STATE | Lease No. 857948 |
| Location Unit Letter <u>B</u> : <u>660</u> Feet From The <u>NORTH</u> Line and <u>1330</u> Feet From The <u>EAST</u> Line Section <u>1</u> Township <u>18S</u> Range <u>34E</u> , <u>NMPM</u> , <u>LEA</u> 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"/> Texas New Mexico Pipeline C | Address (Give address to which approved copy of this form is to be sent) 1670 Broadway Denver, Colorado 80202 | | | | | |
| Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Texaco Exploration and Production Inc. | Address (Give address to which approved copy of this form is to be sent) P. O. Box 1137 Eunice, New Mexico 88231 | | | | | |
| If well produces oil or liquids, give location of tanks. | Unit F | Sec. 2 | Twp. 18S | Rge. 34E | Is gas actually connected? YES | When ? 07/12/90 |

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.

Signature K. M. Miller
K. M. Miller Div. Ops. Engr.
Printed Name
May 7, 1991 Title
915-688-4834
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUN 16 1991
By ORSON J. HARRIS
Title Assistant Director

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.

OIL CONSERVATION DIVISION

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

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

| | |
|---|---|
| Operator Texaco Producing Inc. | Well API No. 30-025-30718 |
| Address P.O. Box 730, Hobbs, NM 88240 | |
| Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain) | |
| New Well <input checked="" type="checkbox"/> | Change in Transporter of: |
| Recompletion <input type="checkbox"/> | Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> |
| Change in Operator <input type="checkbox"/> | Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/> |
| If change of operator give name and address of previous operator | |

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|--|-----------------|--|--|-----------------------|
| Lease Name Vacuum Grayburg San Andres Unit | Well No. 158 | Pool Name, Including Formation Vacuum Grayburg San Andres | Kind of Lease State, Federal or Fee | Lease No. 857948 |
| Location | | | | |
| Unit Letter B | 660 | Feet From The North | Line and 1330 | Feet From The East |
| Section 1 | Township 18S | Range 34E | 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"/> Texas New Mexico Pipe Line Co. | Address (Give address to which approved copy of this form is to be sent) P.O. Box 2428, Hobbs, NM 88240 | | | | | |
| Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Texaco Producing Inc. | Address (Give address to which approved copy of this form is to be sent) P.O. Box 1137, Eunice, NM 88231 | | | | | |
| If well produces oil or liquids, give location of tanks. | Unit F | Sec. 2 | Twp. 18S | Rge. 34E | Is gas actually connected? Yes | When? 07-12-90 |

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 X | Gas Well | New Well X | Workover | Deepen | Plug Back | Same Res'v | Diff Res'v |
| Date Spudded 06-11-90 | Date Compl. Ready to Prod. 08-13-90 | | Total Depth 5000' | | P.B.T.D. 4980' | | | |
| Elevations (DF, RKB, RT, GR, etc.) GR 3987', KB 3798' | Name of Producing Formation Grayburg San Andres | | Top Oil/Gas Pay 4234' | | Tubing Depth 4811' | | | |
| Perforations 4234-4556' 2 JSPF-264 holes, 4605-4796' 2 JSPF-168 holes | | | | | Depth Casing Shoe | | | |

TUBING, CASING AND CEMENTING RECORD

| | | | |
|-----------|----------------------|-----------|-------------------------|
| HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| 22" | 18-5/8" | 420' | C1 H 900 sx Cir 326 sx |
| 17-1/2" | 13-3/8" | 1550' | C1 H 1500 sx Cir 150 sx |
| 8-3/4" | 7" | 5000' | C1 H 2300 sx Cir 318 sx |
| | 2-7/8" | 4811' | |

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 07-12-90 | Date of Test 08-18-90 | Producing Method (Flow, pump, gas lift, etc.) Reda Sub Pump | |
| Length of Test 24 hours | Tubing Pressure | Casing Pressure | Choke Size |
| Actual Prod. During Test | Oil - Bbls. 246 | Water - Bbls. 1670 | Gas - MCF 51 |

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
Richard DeSoto
R. B. DeSoto Engineering Technician
Printed Name
09/07/90 (505) 393-7191
Date
Telephone No.

OIL CONSERVATION DIVISION

Date Approved
Orig. Signed by
Paul Kautz
Geologist
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.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
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-105
Revised 1-1-89

| |
|---|
| WELL API NO. 30-025-30718 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 857948 |

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

| | | | | |
|---|-----------------------------------|---|--|--|
| 1a. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____ | | 7. Lease Name or Unit Agreement Name VACUUM GRAYBURG SAN ANDRES UNIT | | |
| b. Type of Completion: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____ | | | | |
| 2. Name of Operator TEXACO PRODUCING INC. | | 8. Well No. 158 | | |
| 3. Address of Operator P. O. Box 3109, Midland, Texas 79702 | | 9. Pool name or Wildcat VACUUM GRAYBURG SAN ANDRES | | |
| 4. Well Location Unit Letter <u>B</u> : <u>660</u> Feet From The <u>NORTH</u> Line and <u>1330</u> Feet From The <u>EAST</u> Line Section <u>1</u> Township <u>18-SOUTH</u> Range <u>34-EAST</u> NMPM <u>LEA</u> County | | | | |
| 10. Date Spudded 06-11-90 | 11. Date T.D. Reached 06-23-90 | 12. Date Compl. (Ready to Prod.) 08-13-90 | 13. Elevations (DF& RKB, RT, GR, etc.) GR-3987, KB-3798 | 14. Elev. Casinghead 3987' |
| 15. Total Depth 5000' | 16. Plug Back T.D. 4980' | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By Rotary Tools 0-5000' | Cable Tools |
| 19. Producing Interval(s), of this completion - Top, Bottom, Name 4234' - 4796'; GRAYBURG-SAN ANDRES | | | | 20. Was Directional Survey Made YES |
| 21. Type Electric and Other Logs Run GR-CNL-CCL | | | | 22. Was Well Cored NO |

CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB/FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|---------------|-----------|-----------|----------------------------|---------------|
| 18 5/8 | 87.5# | 420' | 22 | CL-H 900 SX - CIR. 326 SX | |
| 13 3/8 | 48# | 1550' | 17 1/2 | CL-H 1500 SX - CIR. 150 SX | |
| 7 | 26# | 5000' | 8 3/4 | CL-H 2300 SX - CIR. 318 S | |
| | | | | | |

| 24. LINER RECORD | | | | | 25. TUBING RECORD | | |
|------------------|-----|--------|--------------|--------|-------------------|-----------|------------|
| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE | DEPTH SET | PACKER SET |
| | | | | | 2 7/8 | 4811' | |
| | | | | | | | |

26. Perforation record (interval, size, and number)
4234-4556, 2 JSPF, 264 HOLES.
4605-4796, 2 JSPF, 168 HOLES.
* SEE ATTACHED SUNDRY FOR PERFS AND STIMULATION.

| 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. | |
|---|---------------------------------|
| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
| 4234' - 4252' | ACID-2200 GAL, 15% NEFE. FRAC- |
| | 3000 GAL XLG, 1% KCL PAD & 1000 |
| | GAL XLG 1% KCL W/1 PPG 20/40 SD |

PRODUCTION

| | | | | | | | |
|---------------------------------------|--------------------|--|------------------------|-------------------|-----------------|---|--------------------------|
| 28. Date First Production 07-12-90 | | Production Method (Flowing, gas lift, pumping - Size and type pump) REDA SUB-PUMP | | | | Well Status (Prod. or Shut-in) PRODUCING | |
| Date of Test 08-18-90 | Hours Tested 24 | Choke Size | Prod'n For Test Period | Oil - Bbl. 246 | Gas - MCF 51 | Water - Bbl. 1570 | Gas - Oil Ratio 207.3 |
| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) 38.60 | |

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

Test Witnessed By
KIRBY LOCKLAR

30. List Attachments
DEVIATION SURVEY, SUNDRY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature C.P. Basham / JCH Printed Name C.P. BASHAM Title DRLG. SUPT. Date 08-23-90

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

| | |
|--------------------------|------------------------|
| T. Anhy _____ | T. Canyon _____ |
| T. Salt _____ | T. Strawn _____ |
| B. Salt _____ | T. Atoka _____ |
| T. Yates 2800' | T. Miss _____ |
| T. 7 Rivers 3105' | T. Devonian _____ |
| T. Queen 3670' | T. Silurian _____ |
| T. Grayburg 3988' | T. Montoya _____ |
| T. San Andres 4273' | T. Simpson _____ |
| T. Glorieta _____ | T. McKee _____ |
| T. Paddock _____ | T. Ellenburger _____ |
| T. Blinberry _____ | T. Gr. Wash _____ |
| T. Tubb _____ | T. Delaware Sand _____ |
| T. Drinkard _____ | T. Bone Springs _____ |
| T. Abo _____ | T. _____ |
| T. Wolfcamp _____ | T. _____ |
| T. Penn _____ | T. _____ |
| T. Cisco (Bough C) _____ | T. _____ |

Northwestern New Mexico

| | |
|-----------------------------|------------------------|
| T. Ojo Alamo _____ | T. Penn. "B" _____ |
| T. Kirtland-Fruitland _____ | T. Penn. "C" _____ |
| T. Pictured Cliffs _____ | T. Penn. "D" _____ |
| T. Cliff House _____ | T. Leadville _____ |
| T. Menefee _____ | T. Madison _____ |
| T. Point Lookout _____ | T. Elbert _____ |
| T. Mancos _____ | T. McCracken _____ |
| T. Gallup _____ | T. Ignacio Otzte _____ |
| Base Greenhorn _____ | T. Granite _____ |
| T. Dakota _____ | T. _____ |
| T. Morrison _____ | T. _____ |
| T. Todilto _____ | T. _____ |
| T. Entrada _____ | T. _____ |
| T. Wingate _____ | T. _____ |
| T. Chinle _____ | T. _____ |
| T. Permian _____ | T. _____ |
| T. Penn "A" _____ | T. _____ |

OIL OR GAS SANDS OR ZONES

| | |
|----------------------------|----------------------------|
| No. 1, from 4234' to 4796' | No. 3, from _____ to _____ |
| No. 2, from _____ to _____ | No. 4, from _____ to _____ |

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

| | |
|---------------------------------|---------------------------------|
| No. 1, from _____ to _____ feet | No. 3, from _____ to _____ feet |
| No. 2, from _____ to _____ feet | No. 4, from _____ to _____ feet |
| No. 3, from _____ to _____ feet | |

LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|------|-------|----------------------|---------------------------------------|------|----|----------------------|-----------|
| 0 | 3105' | 3105 | SANDSTONE & ANHYDRITE | | | | |
| 3105 | 3670' | 565 | SANDSTONE, ANYDRITE, AND DOLOMITE | | | | |
| 3670 | 3988' | 318 | DOLOMITE, LIMESTONE, AND ANHYDRITE | | | | |
| 3988 | 5000' | 1012 | DOLOMITE & ANHYDRITE | | | | |