

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator ARCO OIL & GAS COMPANY Well Name and No. Seven Rivers Queen Unit Well #63  
Location: Unit L Sec. 34 Twp. 22S Rng. 36E Cty. Lea

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.

(2) That by Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is to be completed in the South Eunice Seven Rivers Queen Pool, and the standard spacing unit in said pool is 40 acres.

(4) That a 40-acre proration unit comprising the NW/4 SW/4 of Sec. 34, Twp. 22S, Rng. 36E, is currently dedicated to the applicant's Seven Rivers Queen Unit Well #34 located in Unit L of said section.

(5) That this proration unit is (X) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. NA.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 32,500 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

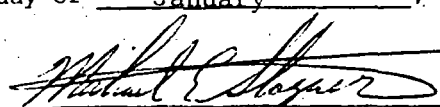
(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this 28th day of January, 19 86.

  
DIVISION DIRECTOR EXAMINER ✓

ARCO Oil and Gas Company  
Permian District  
Post Office Box 1610  
Midland, Texas 79702  
Telephone 915 684 0149



Joe R. Hastings  
District Engineer — West

December 20, 1984

New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Sirs:

ARCO Oil and Gas Company (AOGC) respectfully requests the New Mexico Oil Conservation Division grant an infill finding for infill Wells 62 and 63 in the Seven Rivers-Queen Unit (SRQU).

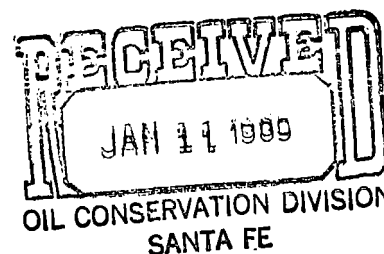
Infill drilling is necessary to promote efficient and effective drainage of the South Eunice and Langlie Mattix Pools. The development drilling will result in increased recovery and prevention of waste caused by oil trapped in discontinuities between wells on the present 40-acre spacing. In addition, infill drilling will reduce effects of a steep structural dip which causes a decrease in correlative pay between wells.

Documentation to support these claims is found in the attached engineering discussion. Additional information necessary to the infill finding application is also included. Copies of this application and a request for a waiver of protest have been furnished the offset operators by registered mail. A copy of the letter sent to the offset operators is included in this package. Should any questions arise, please do not hesitate to call me at (915) 684-0149. We will be happy to assist you with any concerns you may have. Your early consideration in this matter would certainly be appreciated.

Yours very truly,

*Joe R. Hastings*  
Joe R. Hastings

JRH:RBM:sc  
Atts.



Engineering Discussion On The Improvement  
In Recovery From The Seven Rivers-Queen Unit  
Utilizing Infill Drilling

Seven Rivers-Queen Unit Wells No. 62 and 63 were recently drilled as development wells on 20-acre spacing. The wells were approved by the New Mexico Oil Conservation Division under order numbers NSL-1816 and NSL-1815. The two wells were drilled to produce from locations within the present 40-acre spacing that are not efficiently drained throughout the unitized interval. The Seven Rivers-Queen Unit consists of the entire Queen formation and the bottom 100' of the Seven Rivers. The following discussion provides evidence supporting the need for SRQU Wells No. 62 and 63.

The recovery efficiency of the SRQU will increase as the effects of reservoir heterogeneity and structural dip are reduced. These factors combine to reduce the correlative pay between wells which results in a low injection efficiency. The unit's waterflood material balance analysis and pattern performance plot (Figures 3 thru 5) support the fact that injection efficiency within the unit is less than desired.

The primary benefit derived from drilling the two infill wells No. 62 and 63 was the reduction in the negative effect the structural dip plays in the SRQU (Figure 6). As can be seen from the two cross-sections, (Figures 7 and 8), a significant amount of net pay is open to production in the two infill wells that occur at a depth below the WOC in two of the three offset producers. Primary as well as secondary oil and solution gas production should be recovered from these two infill wells. Primary reserves should be realized in wells such as No. 63 in which pay is open which had not been previously produced by either offset producer. Secondary reserves should be enhanced by providing a drawdown for the oil and its solution gas to flow rather than becoming trapped between the water bank created by injection, and the WOC. In addition to this, small stringers are picked up that are not continuous between producers. These two factors help to improve the overall injection efficiency of the Seven Rivers-Queen Unit.

The cross-sections through the two infill wells were prepared from gamma ray-neutron porosity logs. Net pay was determined using an 8% minimum porosity cutoff which is typical for the Seven Rivers and Queen in the area. No pay was included above the GOC at -150' SS or below the WOC at -285' SS. Production from the gas zone would decrease reservoir energy and therefore is usually not opened to production. Pay below the WOC is generally not open in producers in the SRQU, however, injection wells have been perforated below the WOC to sweep oil and solution gas updip to producers.

Two previous infill wells, SRQU No. 60 and 61, were also drilled to reduce the effect of structural dip. Both wells picked up pay that was lost below the WOC in one of its offsets. These two infill wells were completed in April, 1983 and have since produced an average of 17.7 MBO and 2.2 MMCFG each. The expected ultimate recoveries are 57 and 61 MBO, respectively. Production data shows no increase in decline rate after the completion of SRQU No. 60 and 61 (Figure 9), thus indicating that the reserves for the infill wells are new reserves and are not simply the result of rate acceleration.

Seven Rivers-Queen Unit Wells No. 62 and 63 initially potentialized at 8 BOPD and 47 BOPD, respectively. Production from Seven Rivers-Queen Unit No. 62 has increased significantly since its initial potential test. Six 24 hour tests were reported for SRQU No. 62 in October, 1984 and the well averaged 33 BOPD production. The increase in production for the well is due to the fact the well has been pumped off after having a high fluid level at the time of the initial test. Production from SRQU No. 62 and 63 is expected to decline at a rate similar to SRQU No. 60 and 61. The two new infill wells should produce approximately 50 MBO and 32.5 MMCFG each. This value compares favorably to the 47.5 MBO obtained through material balance calculations (Figures 10 thru 13).

Infill drilling in the SRQU helps alleviate the problems associated with structural dip and to a lesser degree the reservoir heterogeneity that is present. SRQU No. 62 and 63 should result in an increase in recoverable reserves of approximately 100 MBO and 65 MMCFG. This, coupled with the 118 MBO and 53.1 MMCFG increase expected from SRQU No. 60 and 61, prove the necessity of infill drilling to improve recovery in the Seven Rivers-Queen Unit.

*Richard Martin*

Engineer

RBM:sc  
Atts.

# PERMIAN DISTRICT – WEST AREA

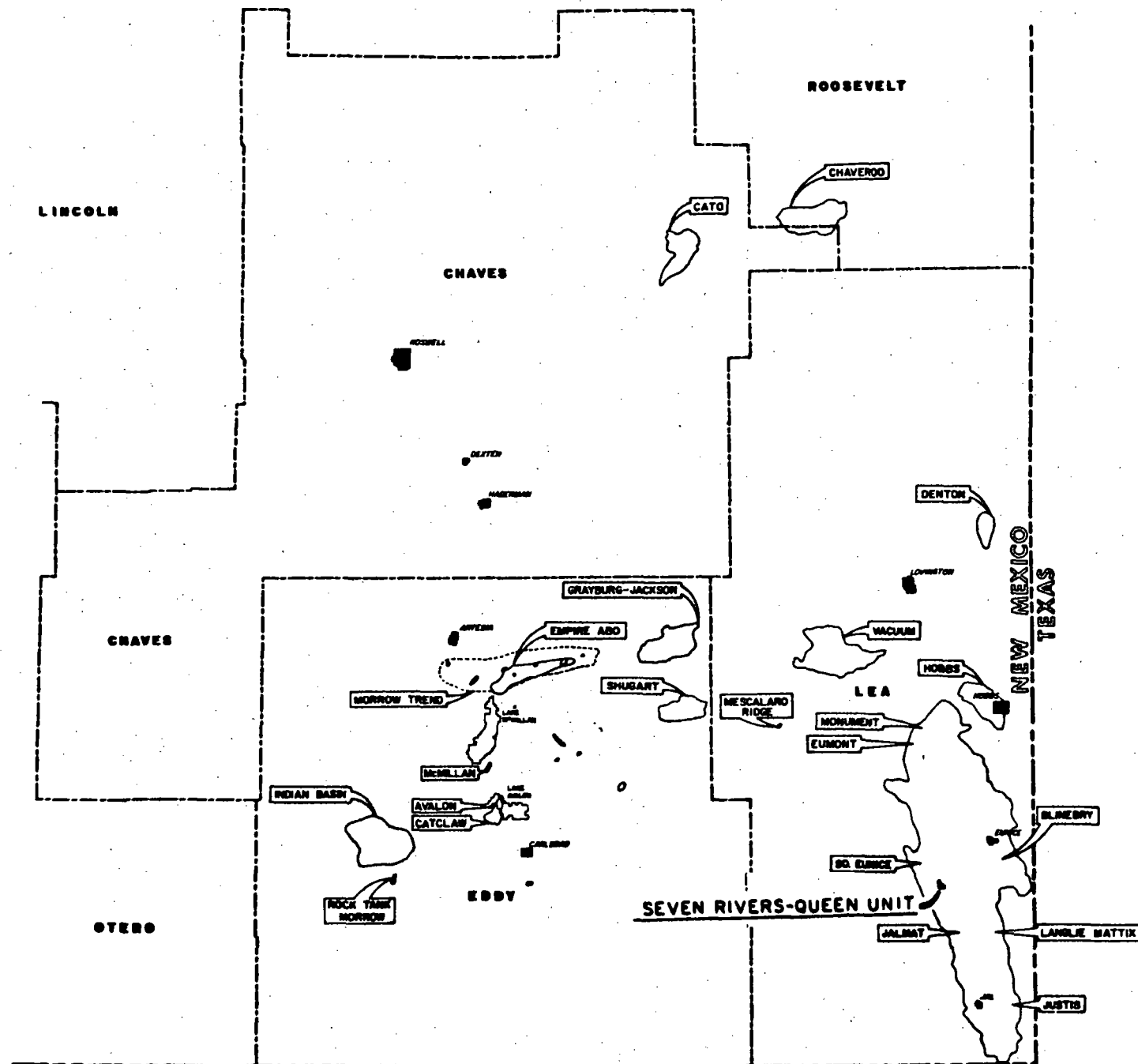
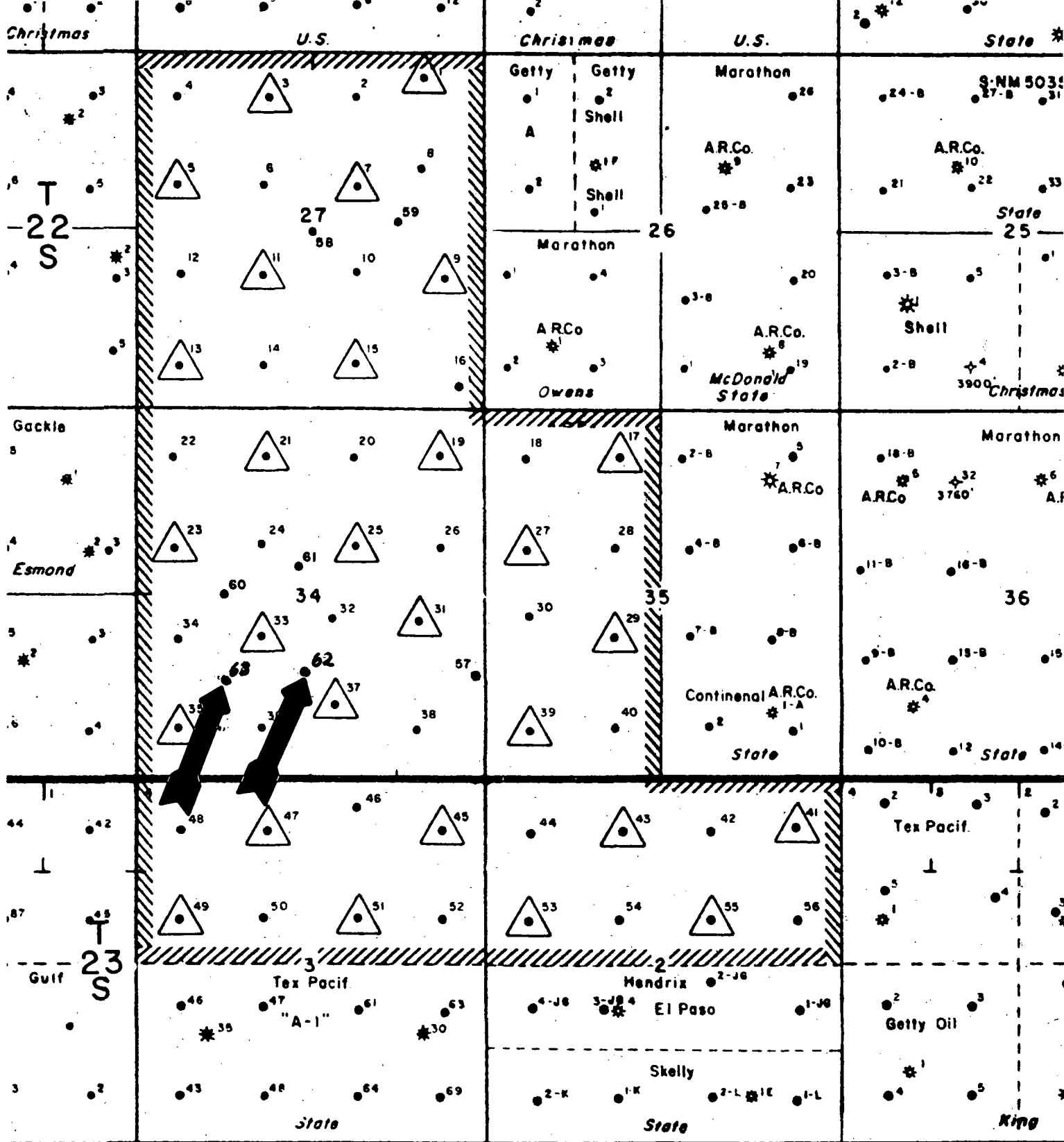


Figure 1



R 36 E

UNIT BOUNDARY

ARCO Oil and Gas Company  
Division of Atlantic Richfield Company  
Permian District Midland, Texas

SEVEN RIVERS-QUEEN UNIT  
LEA COUNTY, NEW MEXICO

UNIT MAP

SCALE: 1" = 2000'

|                        |                 |            |
|------------------------|-----------------|------------|
| By: R. CRAIG           | Drawn By:       | Date: 4-81 |
| Date:                  | Revised By: RdL | Date: 6-83 |
| Dept.: WEST AREA ENGR. | Draw No.:       |            |

Figure 2

| Field                                       |                | Map |  |
|---|----------------|-----|--|
| South Eunice-Langlie Mattix                 |                |     |  |
| Reservoir                                   |                |     |  |
| Seven Rivers-Queen                          |                |     |  |
| Element area                                |                |     |  |
| Average thickness                           | 2240 Acres     |     |  |
| Date start of Injection                     | 31 Feet        |     |  |
| 3/74  |                |     |  |
| Cumulative production at start of Injection |                |     |  |
| Oil ( $N_p$ ) =                             | 2,932 MSTB     |     |  |
| Gas ( $G_p$ ) = Avg. GOR = 1500             | 4,398 MMCF     |     |  |
| Water ( $W_p$ ) = Avg. WOR = .7             | 2,052 MBbls    |     |  |
| Rock and fluid data                         |                |     |  |
| $\phi$ = .11                                | $S_{cw}$ = .32 |     |  |
| $B_{ox}$ = 1.04                             | $S_{or}$ = .32 |     |  |
| $B_{ol}$ = 1.21                             |                |     |  |
| Pattern volumetric data                     |                |     |  |

$$V_p = 7758 \times \phi \times h \times \text{Area} = 7758 \times .11 \times 31 \times 2240 = 59,259 \text{ M RVB}$$

$$V_D = V_p \times (1.0 - S_{cw} - S_{or}) = 59,259 \times (1.0 - .32 - .32) = 21,333 \text{ M RVB}$$

$$\text{O.O.I.P.} = \frac{V_p \times (1.0 - S_{cw})}{B_{ol}} = \frac{59,259 \times (1.0 - .32)}{1.21} = 33,302 \text{ M STB}$$

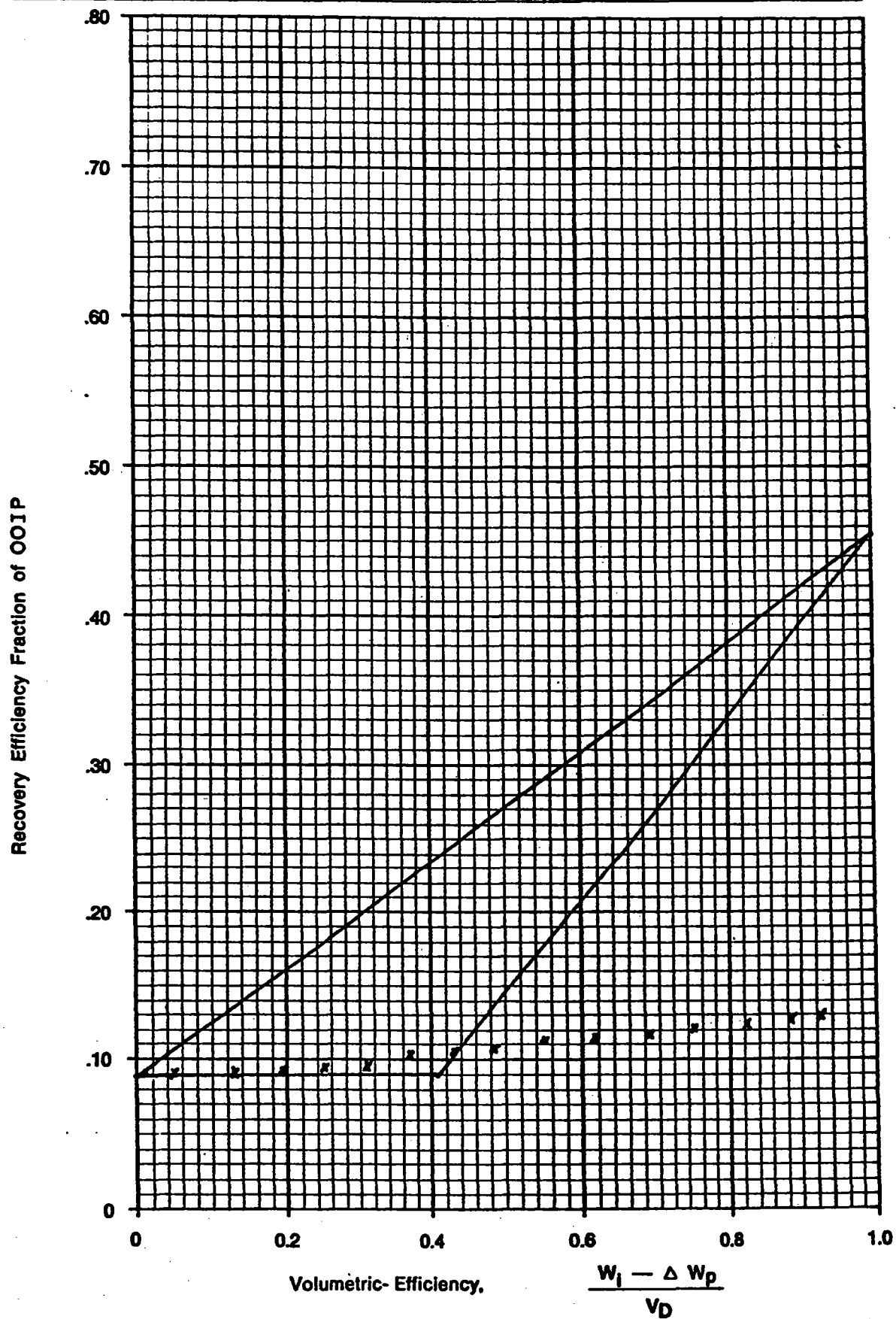
$$S_{gx} = S_{ol} \left[ 1.0 - \frac{B_{ox}}{B_{ol}} (1 - f) \right] = .68 \left[ 1.0 - \frac{1.04}{1.21} (1 - .0880) \right] = .1470$$

$$V_{fillup} = V_p \times S_{gx} = 59,259 \times .1470 = 8709 \text{ RVB}$$

$$\text{Disp. eff. (} E_D \text{)} = \frac{S_{ol} - S_{or}}{S_{ol}} = \frac{.68 - .32}{.68} = .5294$$

$$\text{ABAR} = \frac{S_{gx}}{1.0 - S_{cw} - S_{or}} = \frac{.1470}{.36} = .4083$$

| F at start of flood | ABAR  | F at $E_v = 1.0$  | Pattern No. |
|---------------------|-------|---|-------------|
| .088                | .4083 | $F = 1.0 - \frac{B_{ol}}{B_{or}} (1.0 - E_D) = 1 - \frac{1.21}{1.04} (1 - .5294)$ | Unit        |
|                     |       | .4525   |             |





## INJECTION EFFICIENCY CALCULATION

FROM PATTERN PERFORMANCE PLOT

TO REACH OUTSIDE LINE OF TRIANGLE

$$E_v = .48$$

$$\frac{W_i - W_p}{V_D} = .48$$

$$W_i = .48 V_D + W_p$$

$$W_i = 12,435.1 \text{ MBW}$$

$$\text{INJECTION EFFICIENCY} = \frac{12,435.1}{22,114.1} = \underline{\underline{58\%}}$$

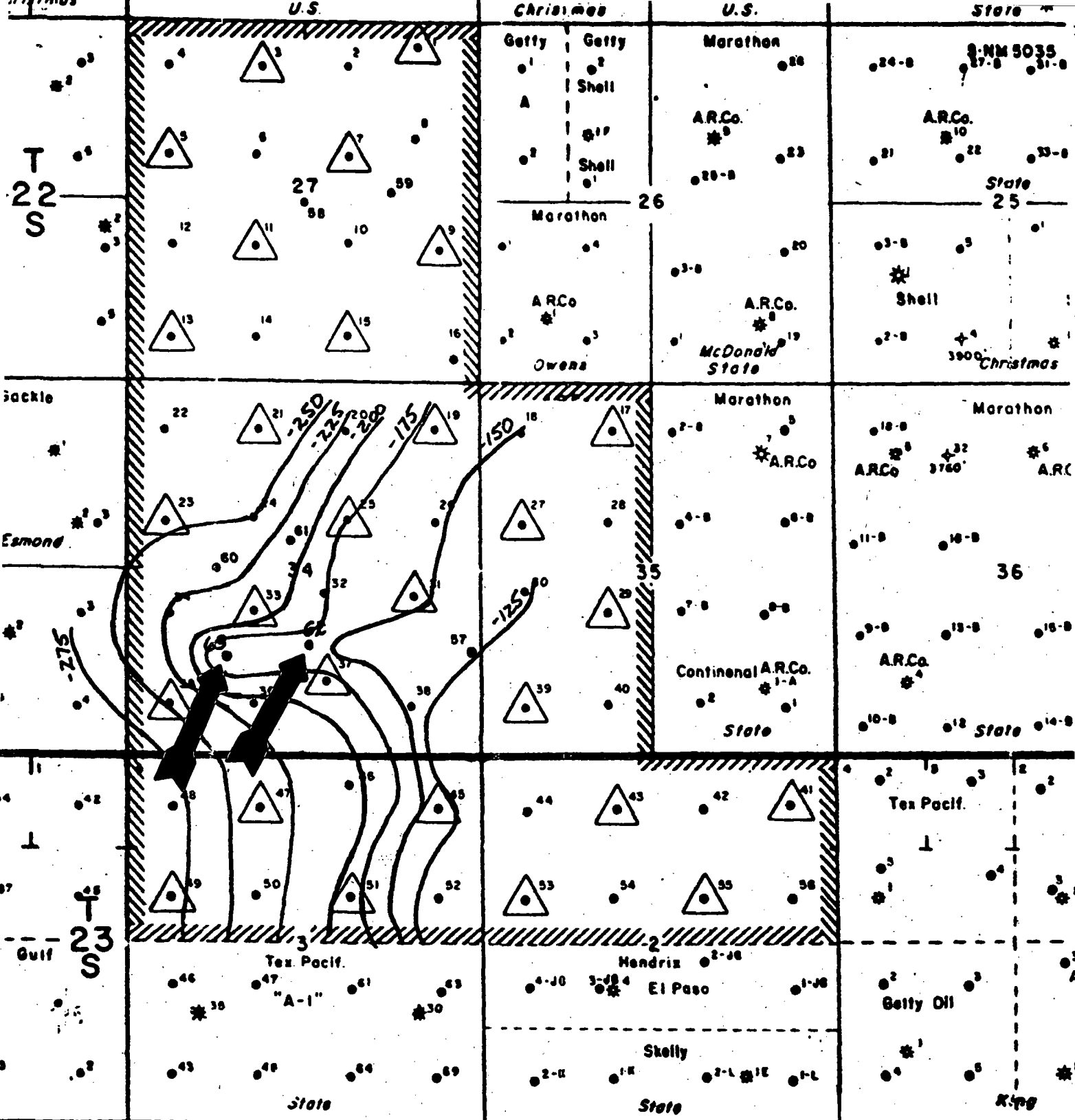
TO REACH CENTER OF TRIANGLE

$$E_v = .30$$

$$W_i = .30 V_D + W_p$$

$$W_i = 8,595.1 \text{ MBW}$$

$$\text{INJECTION EFFICIENCY} = \frac{8,595.1}{22,114.1} = \underline{\underline{40\%}}$$



R 36 E

UNIT BOUNDARY

ARCO Oil and Gas Company  
Division of Atlantic Richfield Company  
Permian District Midland, Texas

SEVEN RIVERS-QUEEN UNIT  
LEA COUNTY, NEW MEXICO

STRUCTURE MAP ON  
TOP OF QUEEN

Contour Interval = 25'

SCALE: 1" = 2000'

|                        |                 |            |
|------------------------|-----------------|------------|
| Dr: R. CRAIG           | Drawn By:       | Date: 4-81 |
| Date:                  | Revised By: RGL | Date: 7-85 |
| Dept.: WEST AREA ENGR. | Drawn By:       |            |

Figure 6

## INTENTIONAL OMISSIONS

**The following document(s) have been intentionally omitted from this file due to the indicated reasons.**

**FILE #** NFL - 116

**DESCRIPTION OF OMITTED DOCUMENTS**

**OMITTED DOCUMENT**

**REASON OMITTED**

Cross Section "AA" Graph

Too Large

# SRQU TOTAL PRODUCTION

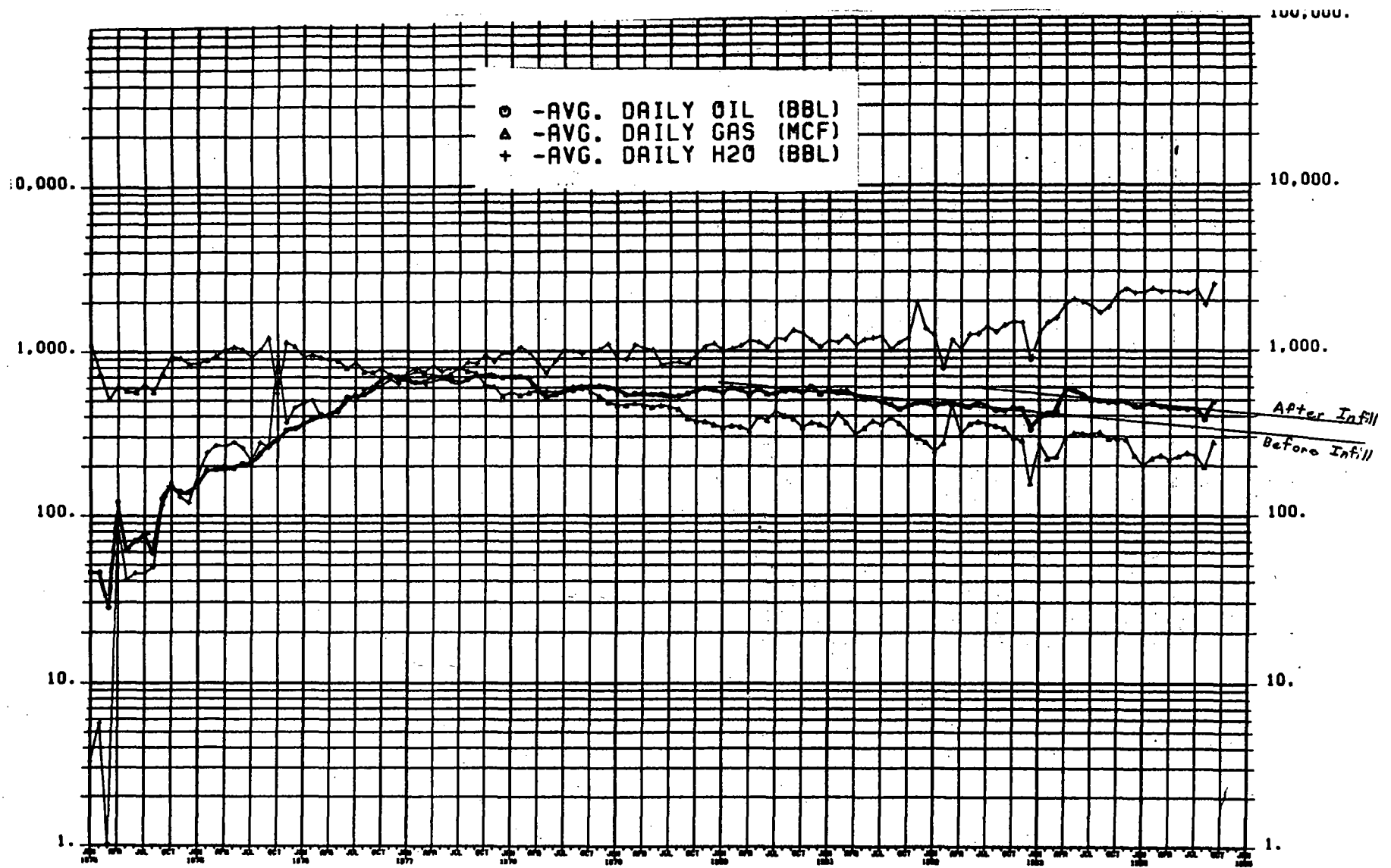


Figure 9

|   |                       |       |  |  |
|---|-----------------------|-------|--|--|
| Field                                       | South Eunice          |       |  |  |
| Reservoir                                   | Seven Rivers - Queen  |       |  |  |
| Element area                                | 35.5                  | Acres |  |  |
| Average thickness                           | 52.5                  | Feet  |  |  |
| Date start of injection                     | 3/74                  |       |  |  |
| Cumulative production at start of injection |                       |       |  |  |
| Oil (N <sub>p</sub> ) =                     | 74.95                 | MSTB  |  |  |
| Gas (G <sub>p</sub> ) =                     | 112.4                 | MMCF  |  |  |
| Water (W <sub>p</sub> ) =                   | 52.5                  | MBbls |  |  |
| Rock and fluid data                         |                       |       |  |  |
| φ = .11                                     | S <sub>cw</sub> = .32 |       |  |  |
| B <sub>ox</sub> = 1.04                      | S <sub>or</sub> = .32 |       |  |  |
| B <sub>oi</sub> = 1.21                      |                       |       |  |  |
| Pattern volumetric data                     |                       |       |  |  |

$$V_p = 7758 \times \phi \times h \times \text{Area} = 7758 \times .11 \times 52.5 \times 35.5 = 1590.5 \text{ M RVB}$$

$$V_D = V_p \times (1.0 - S_{cw} - S_{or}) = 1590.5 \times (1.0 - .32 - .32) = 572.6 \text{ M RVB}$$

$$\text{O.O.I.P.} = \frac{V_p \times (1.0 - S_{cw})}{B_{oi}} = \frac{1590.5 \times (1.0 - .32)}{1.21} = 893.8 \text{ MSTB}$$

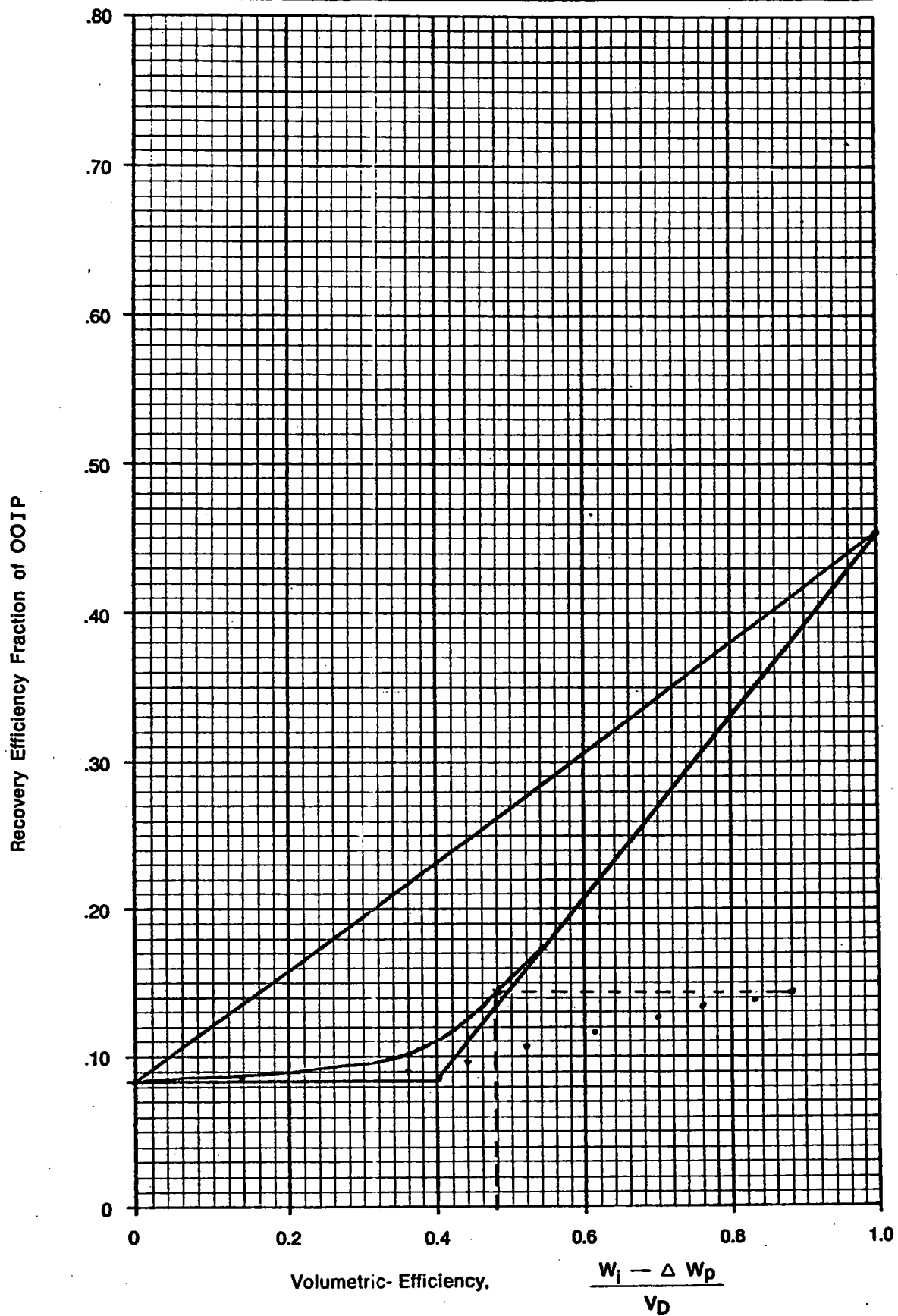
$$S_{gx} = S_{oi} \left[ 1.0 - \frac{B_{ox}}{B_{oi}} (1 - f) \right] = .68 \left[ 1.0 - \frac{1.04}{1.21} (1 - .0839) \right] = .1445$$

$$V_{fillup} = V_p \times S_{gx} = 1590.5 \times .1445 = 229.9 \text{ RVB}$$

$$\text{Disp. eff. (E}_D\text{)} = \frac{S_{oi} - S_{or}}{S_{oi}} = \frac{.68 - .32}{.68} = .5294$$

$$\text{ABAR} = \frac{S_{gx}}{1.0 - S_{cw} - S_{or}} = \frac{.1445}{.36} = .4014$$

| F at start of flood | ABAR | F at $E_v = 1.0$                                     | Pattern No. |
|---------------------|------|--|-------------|
| .084                | .401 | $F = 1.0 - \frac{B_{oi}}{B_{or}} (1.0 - E_D) = .452$ |             |



## Seven Rivers Queen Unit #62

Increased recovery due to infill drilling

Average pay of surrounding wells

| <u>Well #</u> | <u>Net Pay<br/>Logged</u> | <u>Estimated<br/>Add'l Pay Open</u> | <u>Total<br/>Net Pay</u> |
|---------------|---------------------------|-------------------------------------|--------------------------|
| 32            | 37+                       | 11                                  | 48                       |
| 33            | 28+                       | 26                                  | 54                       |
| 36            | 25+                       | 28                                  | 53                       |
| 37            | 37+                       | 18                                  | 55                       |
|               | <hr/>                     |                                     | <hr/>                    |
|               | 127+                      |                                     | 210'                     |
| Avg.          | 31.8                      |                                     | Avg. 52.5'               |

From cross-section of Well Nos. 33, 61, and 25:

% Continuous pay - 40 acre spacing: 69%

% Continuous pay - 20 acre spacing: 77%

From relative permeability data:

$$\begin{array}{l} \text{Soi} = 68\% \\ \text{Sor} = 32\% \end{array} \quad E_D = \frac{\text{Soi} - \text{Sor}}{\text{Soi}} = \frac{.68 - .32}{.68} = .5294$$

From cores on SRQU Nos. 41, 53, and 57:

$$\text{Avg. } \emptyset = 11\%$$

From "Proposed Seven-Rivers Queen Unit Waterflood Study"

$$\text{Boi} = 1.21 \text{ RVB/STB}$$

$$\text{Box} = 1.04 \text{ RVB/STB}$$

$$\text{OOIP}_{35.5 \text{ acres}} = \frac{7758 (.11)(35.5)(52.5)(.68)}{1.21} = 893.8 \text{ MBO}$$

| <u>Well #</u> | <u>Primary<br/>Recovery, MBO</u> |
|---------------|----------------------------------|
| 32            | 80.6                             |
| 33            | 64.4                             |
| 36            | 74.0                             |
| 37            | 80.8                             |
|               | <hr/>                            |
|               | 299.8 x .25 = 74.95 MBO          |

Pattern currently has an injection efficiency of 71%. Assuming an 8% increase in injection efficiency, new reserves should be:

$$\begin{aligned}\Delta E_R &= \frac{B_{oi}}{B_{ox}} E_D [(E_{v2} - E_{v1})f_1 + (E_{v2} - \bar{A})(f_2 - f_1)] \\ &= \frac{1.21}{1.04} (.5294)[(.79 - .71)(.69) + (.79 - .401)(.77 - .69)] \\ &= .0532\end{aligned}$$

$$\text{New reserves} = (.0532)(893.8) = \underline{47.5 \text{ MBO}}$$

Where:

- Soi = initial oil saturation
- Sor = residual oil saturation to waterflood
- Sgx = gas saturation at start of flood
- ED = displacement efficiency
- Ey = volumetric efficiency
- $\bar{A}$  = displaceable pore volume occupied by gas
- f = floodable pay
- 1 = before infill drilling
- 2 = after infill drilling



ARCO Oil and Gas Company  
Permian District  
Post Office Box 1610  
Midland, Texas 79702  
Telephone 915 684 0149



Joe R. Hastings  
District Engineer — West

December 20, 1984

Offset Operators  
Infill Wells Nos. 62 and 63  
ARCO's Seven Rivers-Queen Unit  
Section 34, T22S, R36E  
Lea County, New Mexico

Gentlemen:

Waiver of Objection  
Infill Finding

ARCO Oil and Gas Company hereby notifies you as offset operator to our Seven Rivers-Queen Unit that we have requested the New Mexico Oil Conservation Division grant an infill finding for infill Wells 62 and 63. If you have no objection to the request, please sign this waiver of protest. Send one copy to the NMOCD, one copy to ARCO, and retain one for your files. Stamped, self-addressed envelopes are enclosed for your convenience. Should any questions arise, please contact me at (915)684-0149.

Yours very truly

Joe R. Hastings

JRH:RBM:sc  
Atts.

I waive protest to ARCO's application for an infill finding for their Seven Rivers-Queen Unit Wells Nos. 62 and 63.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

ARCO Oil and Gas Company  
Permian District  
Post Office Box 1610  
Midland, Texas 79702  
Telephone 915 684 0149



Joe R. Hastings  
District Engineer — West

December 20, 1984


New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Dear Sirs:

ARCO Oil and Gas Company (AOGC) respectfully requests the New Mexico Oil Conservation Division grant an infill finding for infill Wells 62 and 63 in the Seven Rivers-Queen Unit (SRQU).

Infill drilling is necessary to promote efficient and effective drainage of the South Eunice and Langlie Mattix Pools. The development drilling will result in increased recovery and prevention of waste caused by oil trapped in discontinuities between wells on the present 40-acre spacing. In addition, infill drilling will reduce effects of a steep structural dip which causes a decrease in correlative pay between wells.

Documentation to support these claims is found in the attached engineering discussion. Additional information necessary to the infill finding application is also included. Copies of this application and a request for a waiver of protest have been furnished the offset operators by registered mail. A copy of the letter sent to the offset operators is included in this package. Should any questions arise, please do not hesitate to call me at (915) 684-0149. We will be happy to assist you with any concerns you may have. Your early consideration in this matter would certainly be appreciated.

Yours very truly,  
  
Joe R. Hastings

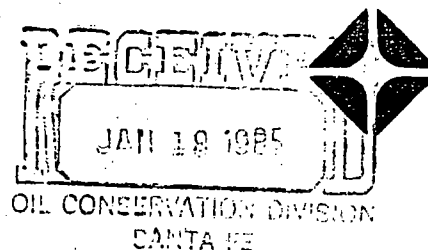
JRH:RBM:sc  
Atts.

OFFSET OPERATORS  
ARCO's Seven Rivers-Queen Unit  
Infill Wells No. 62 & 63

Conoco, Inc.  
P. O. Box 460  
Hobbs, New Mexico 88240

ARCO Oil and Gas Company  
Permian District  
Post Office Box 1610  
Midland, Texas 79702  
Telephone 915 684 0149

Joe R. Hastings  
District Engineer — West



December 20, 1984

CERTIFIED  
RETURN RECEIPT  
REQUESTED

Offset Operators  
Infill Wells Nos. 62 and 63  
ARCO's Seven Rivers-Queen Unit  
Section 34, T22S, R36E  
Lea County, New Mexico

Gentlemen:

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Yours very truly

*Joe R. Hastings*  
Joe R. Hastings

JRH:RBM:sc  
Atts.

I waive protest to ARCO's application for an infill finding for their Seven Rivers-Queen Unit Wells Nos. 62 and 63.

Name: *Donald W. Johnson*

Title: Division Manager

Company: CONOCO INC.

Date: January 15, 1985



Donald W. Johnson  
Division Manager  
Production Department  
Hobbs Division  
North American Production

Conoco Inc.  
P.O. Box 460  
726 East Michigan  
Hobbs, NM 88240  
(505) 393-4141

January 14, 1985

ARCO Oil and Gas Company  
Permian District  
P.O. Box 1610  
Midland, TX 79702

Attention Mr. Joe. R. Hastings

Gentlemen:

ARCO's Seven Rivers - Queen Unit Infill Wells No. 62 and 63, Section 34,  
T-22-S, R-36-E, Lea County, New Mexico

---

Conoco Inc., as offset operator, has approved your waiver letter for the  
subject wells. One copy is being forwarded to the NMOCD in Santa Fe.

Yours very truly,

HAI:mjs

Enclosure ✓

cc: NMOCD - Santa Fe ✓

Received 11/11/85  
Rahar Abdullah  
M.S.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. Box 2088  
SANTA FE, NEW MEXICO  
87501

ADMINISTRATIVE ORDER  
NFL 116

INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER  
MADE PURSUANT TO SECTION 271.305(b) OF THE  
FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS,  
NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION  
ORDER NO. R-6013

I.

Operator ARCO Oil & Gas Company Well Name and No. Seven Rivers Queen Unit Well No. 63  
Location: Unit L Sec. 34 Twp. 22 South Rng. 36 East Cty. Lea

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waiver of existing well-spacing requirements.

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(5) That this proration unit is (☒) standard ( ) nonstandard; if nonstandard, said unit was previously approved by Order No. NA.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 32,500 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013 have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

CL - OED 11/11/85  
NMOT&EC 11/11/85

DIVISION DIRECTOR \_\_\_\_\_ EXAMINER \_\_\_\_\_