EXON COMPANY, U.S.A.

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION

RECEIVED

SFP 5 1990

OIL CONSERVATION DIVISION

September 4, 1990

Downhole Commingling New Mexico "S" State #36 Unit B, Section 2, T22S, R37E Lea County, New Mexico

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504

4

Attention: Mr. David R. Catanach

Exxon Corporation requests an exception to New Mexico Oil Conservation Division Rule 303-A to permit downhole commingling of production from the Wantz Abo and Wantz Granite Wash Pools in the captioned wellbore.

The well is a dual producer which flows the Wantz Abo in the upper tubing string. The Wantz Granite Wash was being pumped below a packer in the long tubing string, but it was shut in during April, 1987 due to pump problems. The Wantz Granite Wash produced only 2 bopd and 8 mcfpd during the year prior to being shut in. This rate does not economically justify repairing the pump. However, there is remaining pay behind pipe in the Wantz Abo. By downhole commingling the Wantz Granite Wash with the economic Wantz Abo completion, Exxon will be able to recover an additional 4492 BO and 18,866 MCF out of the Wantz Granite Wash that otherwise would not be recovered (see Attachment 3 for the calculation).

Exxon proposes to pull the current dual production equipment, add pay in the Wantz Abo, and artificially lift the remaining reserves out of both zones simultaneously in a single completion. The seat nipple will be set across the Wantz Granite Wash pay to prevent crossflow.

All offset operators have been notified by copy of this letter and its attachments.

Sincerely,

²Michael W. Andrews

MWA:dbm Attachments

c: Offset Operators
 Mr. Jerry Sexton, NMOCD, Hobbs, NM
 2 copies to addressee

Attachment 1 Offset Operators Exxon's New Mexico "S" State Lease

Arco Oil and Gas Company P. O. Box 1610 Midland, Texas 79702

Chevron U.S.A., Inc. P. O. Box 670 Hobbs, New Mexico 88240

Marathon Oil Company P. O. Box 552 Midland, Texas 79702

ORYX Energy Company P. O. Box 1861 Midland, Texas 79702

Attachment 2 New Mexico "S" State #36 Downhole Commingling - Data Required

To obtain approval for downhole commingling, we have enclosed the following data pursuant to Rule 303 (C) (2) (a through j):

1. Exxon's name and address:

Exxon Corporation P. O. Box 1600 Midland, TX 79702

2. Lease name, well number, well location, and name of pools to be commingled:

New Mexico "S" State No. 36, Unit B, Section 2, T-22-S, R-37-E, Lea County, New Mexico. Pools to be commingled: Wantz Abo and Wantz Granite Wash.

3. A plat of the area showing the acreage dedicated to the well and ownership of all offsetting leases:

Attached.

4. A 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone:

Tests for the Wantz Abo and Wantz Granite Wash are attached.

5. A production decline curve for zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes:

Decline curves for the Wantz Abo and Wantz Granite Wash are attached.

6. A current bottomhole pressure for each zone capable of flowing:

Measured shut-in bottomhole pressure is 821 psia for the Wantz Abo (measured by static downhole pressure bomb in the New Mexico "S" State #36), and 610 psia for the Wantz Granite Wash (measured by static downhole pressure bomb in the New Mexico "S" State #33). When adjusted to a common average datum of 3670 feet subsea, the Wantz Abo pressure is 827 psia and the Wantz Granite Wash pressure is 605 psia.

7. A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore:

Produced fluids are already surface commingled with no compatibility problems.

8. A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

All of the crude and condensate currently produced from the Wantz Abo and Wantz Granite Wash is already being surface commingled into one common stock tank, and sold as a mixture.

9. A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such a formula:

The Wantz Granite Wash produced an average of 2 bopd and 8 mcfpd during the year prior to being shut in. Pay will be added in the Wantz Abo. The contribution from the Wantz Abo will be determined by subtracting the prior rate of the Wantz Granite Wash from the total commingled rate. A test period of 2 to 3 weeks will be used to obtain a stabilized rate prior to submitting the allocation formula.

10. A statement that all offset operators and, in case of a well on Federal land, the United States Geological Survey, has been notified in writing of the proposed commingling.

By copy of this letter, we are notifying the offset operators of this proposed commingling.

11. In addition, working interest and royalty interest ownership in all zones are the same.

ATTACHMENT 3

NEW MEXICO "S" STATE #36

ADDITIONAL RECOVERY CALCULATION

Wantz Granite Wash and Drinkard

Current Rate = 2.0 BOPD, 8.4 MCFPD (GOR = 4200 SCF/bb1)

Decline Rate = 15% per year (exponential)

Additional Reserves Recovered by Downhole Commingling

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Gas:

G = 4492 BO * 4200 SCF/bb1 = 18.866 MCF

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Submit 2 copies to Appropriate District Office, DISTRICT

P.O. Drawer DD, Artesia, NM 88210 P.O. Box 1980, Hobbs, NM 88240 DISTRICT III DISTRICT II

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

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Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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Revised 1/1/89 Form C-116

Signature

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I hereby-scertify that the above information is

Inspiriedge and belief

complete to the best of my

Staff Ofc. Asst Anita R. Douglass,

Printed name and title

915/688-7627

Telephone No.

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Submit 2 copies to Appropriate

P.O. Drawer DD, Artesia, NM 88210 P.O. Box 1980, Hobbs, NM 88240 District Office. DISTRICT II DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

Page 2 of

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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Report casing pressure in lieu of tubing pressure for any well producing through casing. Specific gravity base will be 0.60.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I heroty pertify that the above information is true and pleuglo the best of my/knowledge and belief Sr. Staff Ofc. Asst. Douglass Printed name and title Anita R.

06-6

Gas volumes must be reported in MCP measured at a pressure base of 15.025 psia and a temperature of 60° P.

915/688-7627

Revised 1/1/89

Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

Submit 2 copies to Appropriate

District Office.

DISTRICT

GAS - OIL RATIO TEST

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Instructions:

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Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

(See Rule 301, Rule 1116 & appropriate pool rules.)

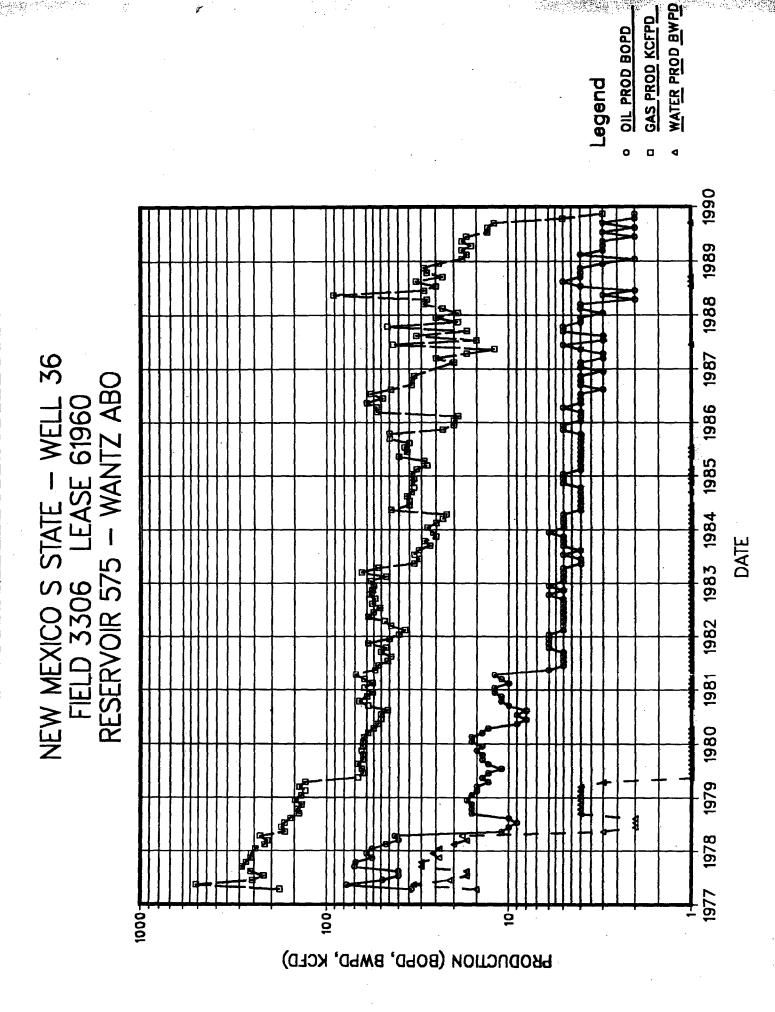
915/688-7627 Anita R. Douglass, 190 Printed name and title

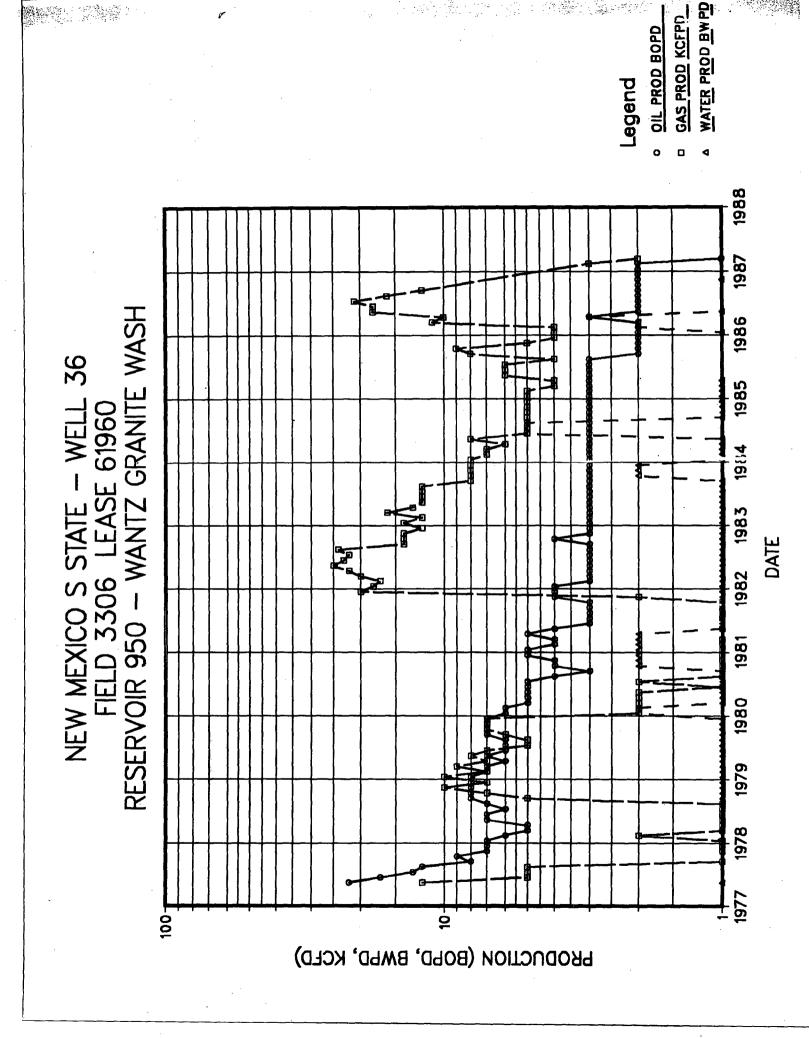
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Staff Ofc, Asst.

Telephone No.

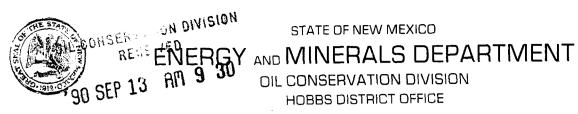
Date





Wellbore Sketch Daso: 4/0/90 Loans, Wall: New Mexico "5" State # 36 Mole: BOT Elev. 3369', above Field Bape: Myn Pace PPM Tabing Size 23/8 Grade ____ CURRENT Bettem Hele Arrangement WELLBORE CONFIGURATION 1176' -1014" csq 5/77 - D&C Wal camp in Also & Grandelle Frack Wountz Abo w/24000 gal polymulsion, 24000 gal Gelled 174d-114 6010, 475 KCFD, 49 BUYD 6579' -Baker model "K" dual pkr Den. Grante Wash Actdize arante Wash w/200 gal -6656'-58' 6682 -85 6688' - 679'', 6735 -41' 6746' - 63', 6773' -91' 1598HC1, Frac & 6/W w/ 20,000 ge Abo al all \$23,000 \$ 20/40 sand (flow) 6830'-42', 6854-66' 6875'-90, 6901-18' E/W TPW -39 BORD, 534CH 1 BWPD TOC 7/41' - baker per of on-off tool WANTZ ABO = FLOWING GRANITEWASH - PUMPING Granite 7200'-14', 7225-27' 7233' - 34', 7251'-54' wash 7270'-76', 7320'-40' (ame) PBO - 7530' 7545' - 7" csg TD 7600

Welloore DRetch Date: 4/19/90 Lease, Well: NEW MEXICO'S "STATE "36 Elev. 3369', Pield: BDT above Field Sapt: McBEE Tabing Size 23/8 Grade ____ AFTER COMMINGLING > Bettem Hele Arrangement WELLBORE CONFIGURATION 103/4" @ 1176 Well history: 5/77 D+C DUAL COMP PERF ABO Free W/ 24,000 gels. polymulsion + 24,000 gals. gelled 20% HCL 1P= 114 BOPD 475 MCFPD 49 BWP1 6656'-7150' PERF GRANITE WASH Acidize w/ 2200 gab. 15% HCL Free WI 20,000 gib. gelled oil WANTZ ABO + 13,000 # 20140 sand 1P = 39 BOPD 53 MCFPD 1 RWPD TOC 7200'-7361 GRANITE WASH 7"07595' TO@ 7600' PBTD@ 7530'



STATE OF NEW MEXICO

HOBBS DISTRICT OFFICE

GARREY CARRUTHERS GOVERNOR

9-7-90

POST OFFICE BOX 1980 HOBBS. NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed: MC DHC NSL NSP SWD WFX PMX
Gentlemen:
I have examined the application for the: Eyyan Cayp. New Mexico & State # 36-B 2-22-3 Operator Lease & Well No. Unit S-T-R and my recommendations are as follows: OK
Yours very truly, Supervisor, District 1