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PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION

May 16, 1988

MAY 1719 3

OIL CONSERVATION DIVISION

Downhole Commingling Simultaneous Dedication N. G. Penrose Well No. 1 Unit B, Section 13, T22S, R37E Lea County, New Mexico

cces 9398

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

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 Blinebry Oil & Gas, Drinkard and Tubb Oil & Gas Pools in the captioned wellbore. Since we expect the Tubb Oil & Gas Pool completion to be gas, we also request simultaneous dedication of a 160 acre gas proration unit in the northeast quarter of Section 13 to N.G. Penrose Wells 1, 2 and 4. Please set this matter for consideration at the June 8, 1988 examiner hearing.

Well No. 1 is currently a marginal multiple completion in the Blinebry and Tubb. The Blinebry last tested 8 mcfgpd, but has not produced since 1977. The Tubb last tested 17 mcfgpd and appears to be loading with condensate. Exxon proposes to pull the current dual production equipment, add the Drinkard and install artificial lift to produce the remaining reserves in all three zones. Since separate testing of the zones before commingling would make the proposal prohibitively expensive, we ask that no such requirement be imposed.

A completed NMOCD Form C-102 for the Tubb is attached, as is the data described in Rule 303 (C)(2). All offset operators have been notified by copy of this letter and its attachments.

James Hours

JDH:jr Attachments

Certified Mail - w/attachments Mr. James Bruce Offset Operators Mr. Jerry Sexton, NMOCD, Hobbs, NM 2 copies to addressee

OFFSET OPERATORS TO EXXON'S N. G. PENROSE LEASE

Mabee Petroleum Corp. 400 W. Illinois, Ste. 1500 Midland, Texas 79701

Zachary Oil Operating Co. 1212 Commerce Bldg. Fort Worth, Texas 76102

Marathon Oil Company Box 522 125 W. Missouri St. Midland, Texas 79702

Fina Oil & Chemical Company 6 Desta Drive Midland, Texas 79705

Texaco Producing, Inc. Box 3109 500 N. Lorraine Midland, Texas 79701

Sun Exploration & Production Co. Box 1861 Midland, Texas 79702

Sohio Petroleum Company 10 Desta Drive, Ste. 600 West Midland, Texas 79705

J. H. Hendrix Corp. 223 W. Wall 525 Midland Tower Bldg. Midland, Texas 79701

Exxon Lse No	53159	NEW MEXICO OF				AT	Form C-102 Supersedes C-128 Effective 1-1-65
Federal Lee, No		All distances must b		boundaries of	the Section.		
Operator Exton (Corporation		Lease N.	G. Penro	nse		Well No.
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is true and correct to the best of my

knowledge and belief.

3-4-75
Registered Professional Engineer and/or Land Surveyor

Date Surveyed

Certificate No.

Attachment 2 N. G. Penrose Well No. 1 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:
 - N. G. Penrose Well No. 1, Unit B, Section 13, T-22-S, R37-E, Lea County, New Mexico. Pools to be commingled: Blinebry Oil & Gas, Drinkard, and Tubb Oil & Gas.
- 3. A plat of the area showing the acreage dedicated to the well and the 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 Blinebry and Tubb on Form C-116 are attached. The Drinkard has not yet been perforated. Expected Drinkard production is 3.5 BOPD and 68.3 mcfpd.

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 Blinebry and Tubb zones are attached. Note that the Blinebry has not produced since 1977. Test data indicates that this zone is capable of producing 8 mcfpd. Allocations shown in Item 9 are based on actual production where available and appropriate or on 1986 average per well production within the immediate area.

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

The well currently flows small amounts of gas from the Tubb but appears to be logged up with condensate and most probably will require artificial lift to properly produce. Measured shut-in bottomhole pressure is 487 psia for the Tubb, 488 psia for the Blinebry (estimated from static fluid level in the N. G. Penrose #1) and 1416 psia for the Drinkard (estimated from the static fluid level in the N.G. Penrose #3). When adjusted to a common average datum of 2776 feet subsea, the Blinebry pressure is 668

psia, the Tubb pressure is 474 psia, and the Drinkard pressure is 1246 psia. Although the lowest pressured zone is less than 50% of the pressure in the highest pressured zone, no crossflow will occur since the fluids will be artificially lifted.

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 Blinebry Oil & Gas, Tubb Oil and Gas, Drinkard and Granite Wash pools on this lease is already being surface commingled into one common stock tank, and sold as a mixture. Although unrelated to downhole commingling, increased gas production rates expected from artificial lifting the fluids may disqualify these completions from stripper gas classification.

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 following allocation percentages are suggested based upon the ratio of production from each zone:

	Expected Oil	Production	Expected Gas	Production
	0il (BOPD)	Gas (M	CFPD)
Blinebry Oil & Gas	4.6	(52%)	84.9	(41%)
Drinkard	3.5	(39%)	68.3	(33%)
Tubb_Oil & Gas	0.8	(9%)	54.8	(26%)
Commingled Total	8.9	(100%)	208.0	(100%)

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.

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STATE OF NEW MEXICO ENERGY AND MINISTRALS DEPARTMENT

P. O. BON 2015 BANTA PE, NEW MEXICO 07501

form C-116 Revised 10-1-78

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Guta & Churloss

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EVERDY AND MINERALS DEPARTMENT BTATE OF NEW MEXICO

SANTA FE, NEW MEXICO 67861

Form C-116 Day . GAS-OIL RATIO TESTS TEST PERIOD - AUG. SEPT. OCT.

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I hereby certify that the above information is true and complete to the best of my knowledge and belief. During gas-sil ratio test, each well shall be preduced at a rate and asserting the tap unit allowable for the past in which well is factored by more than 35 percent. Operator is encouraged to take advantage of this 25 percent telescare in order that well can be assigned factored allowables when authorised by the Division.

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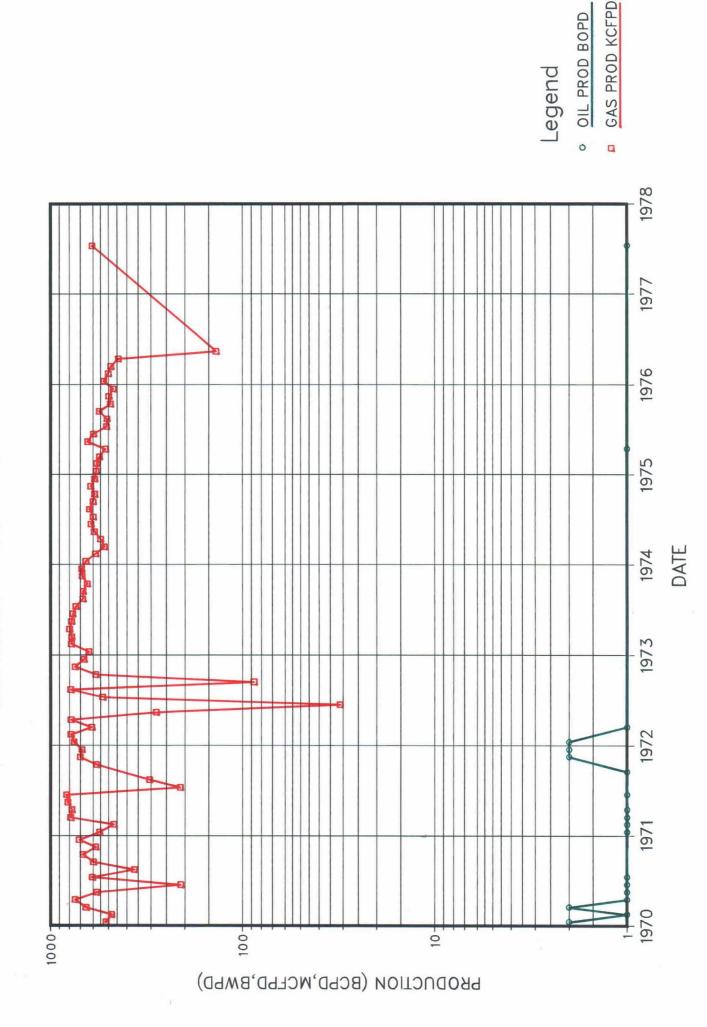
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Mail original and and tapy of this report to the district of the Mew Mexico Oli Conservation Division in accordance with Rule 101 and appropriate pool rules.

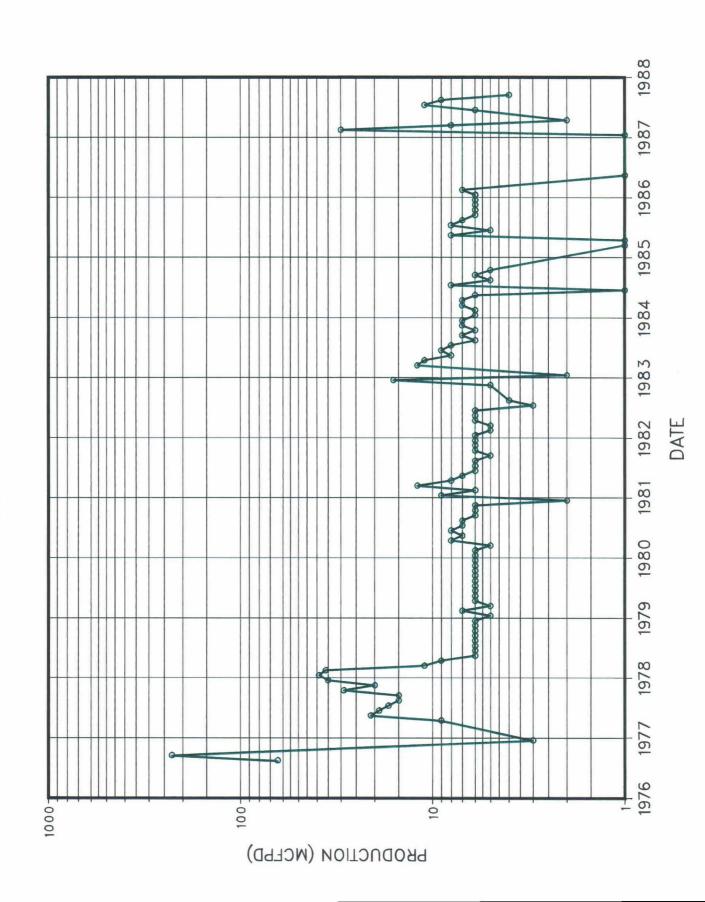
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1626-4491

N G PENROSE #1 BLINEBRY PRODUCTION



N G PENROSE #1 TUBB PRODUCTION





POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

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MAY 17 1844

PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION

May 16, 1988

QIL CONSERVATION DIVISION

Downhole Commingling Simultaneous Dedication N. G. Penrose Well No. 2 Unit H, Section 13, T22S, R37E Lea County, New Mexico

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

Case 9398

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amufffand J. D. Howell

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Fxxon	Lse No	53159
	LJW ITC	· ————

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

Fed

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Attachment 2 N. G. Penrose Well No. 2 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:
 - N. G. Penrose Well No. 2, Unit H, Section 13, T-22-S, R37-E, Lea County, New Mexico. Pools to be commingled: Blinebry Oil & Gas, Drinkard, and Tubb Oil & Gas.
- 3. A plat of the area showing the acreage dedicated to the well and the 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:

A test for the Tubb on Form C-116 is attached. The Drinkard has not yet been perforated. Expected Drinkard production is 3.5 BOPD and 68.3 mcfpd. The Blinebry zone is completed in this well but last tested 59 MCFPD on potential test on 9/8/77. This zone has been shut-in since then and has never produced.

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:

A decline curve for the Tubb zone is attached. The Blinebry has not produced since 1977 as noted in item 4 above. Allocations shown in Item 9 are based on actual production where available and appropriate or on 1986 average per well production within the immediate area.

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

Measured shut-in bottomhole pressure is 482 psia for the Tubb, 1092 psia for the Blinebry (estimated from static fluid level in the N. G. Penrose #2) and 1416 psia for the Drinkard (estimated from the static fluid level in the N. G. Penrose #3). When adjusted to a common average datum of 2771 feet subsea, the Tubb pressure is 482 psia, the Blinebry pressure is 1265 psia and the Drinkard pressure is 1244 psia.

The well currently flows small amounts of gas from the Tubb. The Tubb is not logged up and the Blinebry zone does not appear to be logged up with condensate. However, after commingling with the Drinkard zone the well will probably require artificial lift, which will be installed, in order to produce. Although the lowest pressured zone is less than 50% of the pressure in the highest pressured zone, no crossflow will occur since the fluids will be artificially lifted.

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 Blinebry Oil & Gas, Tubb Oil and Gas, Drinkard and Granite Wash pools on this lease is already being surface commingled into one common stock tank, and sold as a mixture. Although unrelated to downhole commingling, increased gas production rates expected from artificial lifting the fluids may disqualify these completions from stripper gas classification.

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 following allocation percentages are suggested based upon the ratio of production from each zone:

	Expected Oil	Production	Expected Gas	Production
	0il (BOPD)	Gas (MC	FPD)
Blinebry Oil & Gas	4.6	(52%)	84.9	(41%)
Drinkard	3.5	(39%)	68.3	(33%)
Tubb Oil & Gas	0.8	(9%)	54.8	(26%)
Commingled Total	8.9	(100%)	208.0	(100%)

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.

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA PE, NEW MEXICO 87881

Form C-116 Revised 10-1-78

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No well will be socioned on allowable greater than the amount of oil produced on the official trot.

Dwing gar-all ratio test, each well shall be produced at a rate and exceeding the top unit allowable for the peat in which well to leave better the control of exceeding the more than 25 percent. Operator is encouraged to take advantage of this 25 percent telegrane in order that well can be assigned. increased allowables when authorized by the Division. Gos volumes must be reported in MCF messured at a pressure base of 15,825 pais and a temperature of 60° F. Spetific gravity base 12 × 0.60.

Mail original and one copy of this report to the district of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules. Report cacing pressure in lieu of tubing pressure for any well producing through encing.

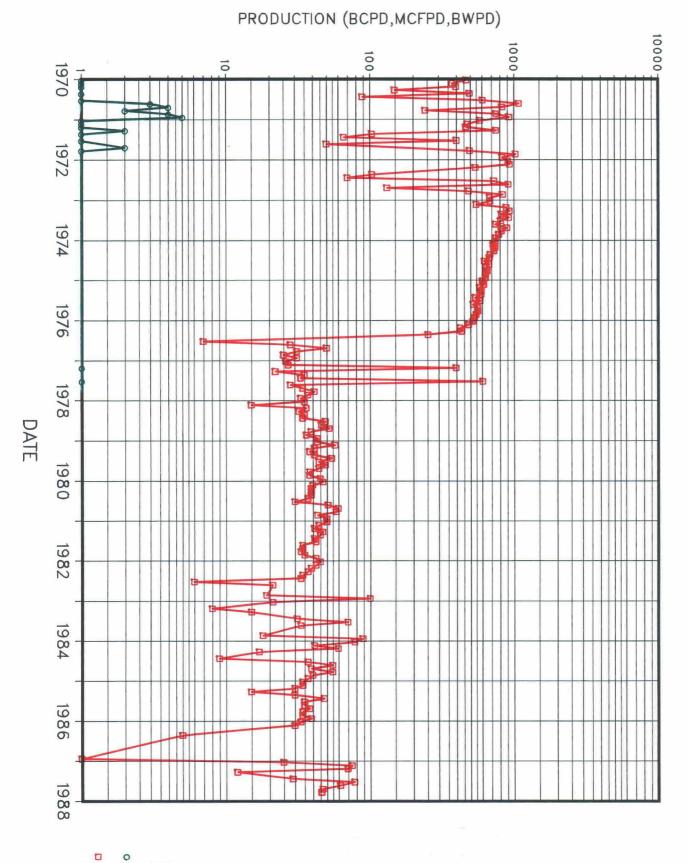
is true and complete to the best of my knowledge and belief.

I hereby certify that the above information

Saita & Bougla

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Legend

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GAS PROD KCFPD

EXON COMPANY, U.S.A. POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

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RECEIVED

MAY 17 1988

PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION May 16, 1988

OIL CONSERVATION DIVISION

Downhole Commingling
Simultaneous Dedication
Unorthodox Gas Well Location
N. G. Penrose Well No. 4
Unit A, Section 13, T22S, R37E
Lea County, New Mexico

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501 JULY 9398

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 Blinebry Oil & Gas, Drinkard, Tubb Oil & Gas, and Wantz Granite Wash Pools in the captioned wellbore. Since we expect the Tubb Oil & Gas Pool completion to be gas, we also request:

- 1) approval of a non-standard gas well location 350' from the north line and 660' from the east line of Section 13, and
- 2) simultaneous dedication of a 160 acre gas proration unit in the northeast quarter of Section 13 to N.G. Penrose Wells 1, 2 and 4.

Please set this matter for consideration at the June 8, 1988 examiner hearing.

Well No. 4 is currently dead in the Granite Wash. Exxon proposes to add the Drinkard, Blinebry and Tubb zones, then install artificial lift equipment to produce the remaining reserves in all four zones. Since separate testing of the zones before commingling would make the proposal prohibitively expensive, we ask that no such requirement be imposed.

A completed NMOCD Form C-102 for the Tubb is attached, as is the data described in Rule 303 (C)(2). All offset operators have been notified by copy of this letter and its attachments.

Sincerely,

.l D Howell

JDH:jr Attachments

Certified Mail - w/attachments c: Mr. James Bruce Offset Operators

Mr. Jerry Sexton, NMOCD, Hobbs, NM

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OFFSET OPERATORS TO EXXON'S N. G. PENROSE LEASE

Mabee Petroleum Corp. 400 W. Illinois, Ste. 1500 Midland, Texas 79701

Zachary Oil Operating Co. 1212 Commerce Bldg. Fort Worth, Texas 76102

Marathon Oil Company Box 522 125 W. Missouri St. Midland, Texas 79702

Fina Oil & Chemical Company 6 Desta Drive Midland, Texas 79705

Texaco Producing, Inc. Box 3109 500 N. Lorraine Midland, Texas 79701

Sun Exploration & Production Co. Box 1861 Midland, Texas 79702

Sohio Petroleum Company 10 Desta Drive, Ste. 600 West Midland, Texas 79705

J. H. Hendrix Corp. 223 W. Wall 525 Midland Tower Bldg. Midland, Texas 79701

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Registered Professional Engineer and/or Land Surveyor

Previously certified by

Bruce R. Pennell

Certificate No.

9062

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my

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Attachment 2 N. G. Penrose Well No. 4 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:
 - N. G. Penrose Well No. 4, Unit A, Section 13, T-22-S, R37-E, Lea County, New Mexico. Pools to be commingled: Blinebry Oil & Gas, Drinkard, Tubb Oil & Gas, and Wantz Granite Wash.
- 3. A plat of the area showing the acreage dedicated to the well and the 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:

The latest test for the Wantz Granite Wash is attached. The other three proposed zones are not currently completed.

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:

A decline curve for the Wantz Granite Wash is attached.

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

Estimated shut-in bottomhole pressures are 1002 psia for the Blinebry (estimated from static fluid level in the N. G. Penrose #2), 487 psia for the Tubb (measured in the N. G. Penrose #1), and 1416 psia for the Drinkard (estimated from static fluid level in the N. G. Penrose #3). The bottom hole pressure measured in the Wantz Granite Wash in the N. G. Penrose #4 is 881 psia. When adjusted to a common average datum of 2767 feet subsea, the Blinebry pressure is 1261 psia, the Tubb pressure is 472 psia, the Drinkard pressure is 1243 psia, and the Wantz Granite Wash pressure is 426 psia. Although the lowest pressured zone is less than 50% of the pressure in the highest pressured zone, no crossflow will occur since the fluids will be artificially lifted.

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 Blinebry Oil & Gas, Tubb Oil and Gas, Drinkard and Granite Wash pools on this lease is already being surface commingled into one common stock tank, and sold as a mixture. Although unrelated to downhole commingling, increased gas production rates expected from artificial lifting the fluids may disqualify these completions from stripper gas classification.

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 following allocation percentages are suggested based upon the ratio of production from each zone:

	Expected Oil Oil (Production BOPD)	Expected GasGas_(MC	
Blinebry Oil & Gas	4.6	(20%)	84.9	(29%)
Drinkard	3.5	(15%)	68.3	(23%)
Tubb Oil & Gas	0.8	`(3%)	54.8	(19%)
Wantz Granite Wash	14.0	(62%)	85.0	(29%)
Commingled Total	22.9	(100%)	293.0	(100%)

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.

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F. O. DON 1000 BANTA PE, NEW MEXICO 87501

Form C-116 Revised 10-1-70

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(Date)

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-M T -. C.

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Me'l critical and one copy of this report to the district affice of the New Mexico Oil Conservation Division in accordance with Rule 191 and oppositions pool refer.

N G PENROSE #4