



Amoco Production Company

Petroleum Center Building
501 Airport Drive
Farmington, New Mexico 87401
505-325-8841

W. J. Holcomb
District Manager

December 14, 1984

Case 8515

New Mexico Oil Conservation Division
Attn: David Catanach
P. O. Box 2088
Santa Fe, NM 87501

File: DDL-1252-400.1

Dear Sirs:

Commingling Application for the Rosa Unit 99Y
Section N26, T31N, R6W, Rio Arriba County, NM

Amoco Production Company requests approval to commingle production from the Flora Vista Gallup and Basin Dakota horizons in the subject well. Commingling is necessary due to producing rates from the Gallup that are too low to economically dual complete the well. There will be no crossflow between the two zones as neither zone is sensitive to produced liquids, and there will be no loss of value of production. Finally, the working interest and royalty of both zones are the same, and the bottom hole pressure of the Gallup is more than 50 percent of the bottom hole pressure of the Dakota. We therefore request approval of our commingling application.

As required by Rule 303C, we have attached two copies of the following:

1. Acreage Plat
2. Form C-107
3. Form 3160-4 Well Completion Report
4. Bottom hole pressures
5. Recommended allocation formula
6. Copy of notification to offset operators

This well is a new completion, and thus no production decline curves are supplied. Neither zone makes any condensate and there is no fluid compatibility problem. In conclusion, production from the Gallup is too low to warrant dual completion with the Dakota. Therefore, please approve our application to commingle at your earliest convenience.

Yours very truly,

W. J. Holcomb

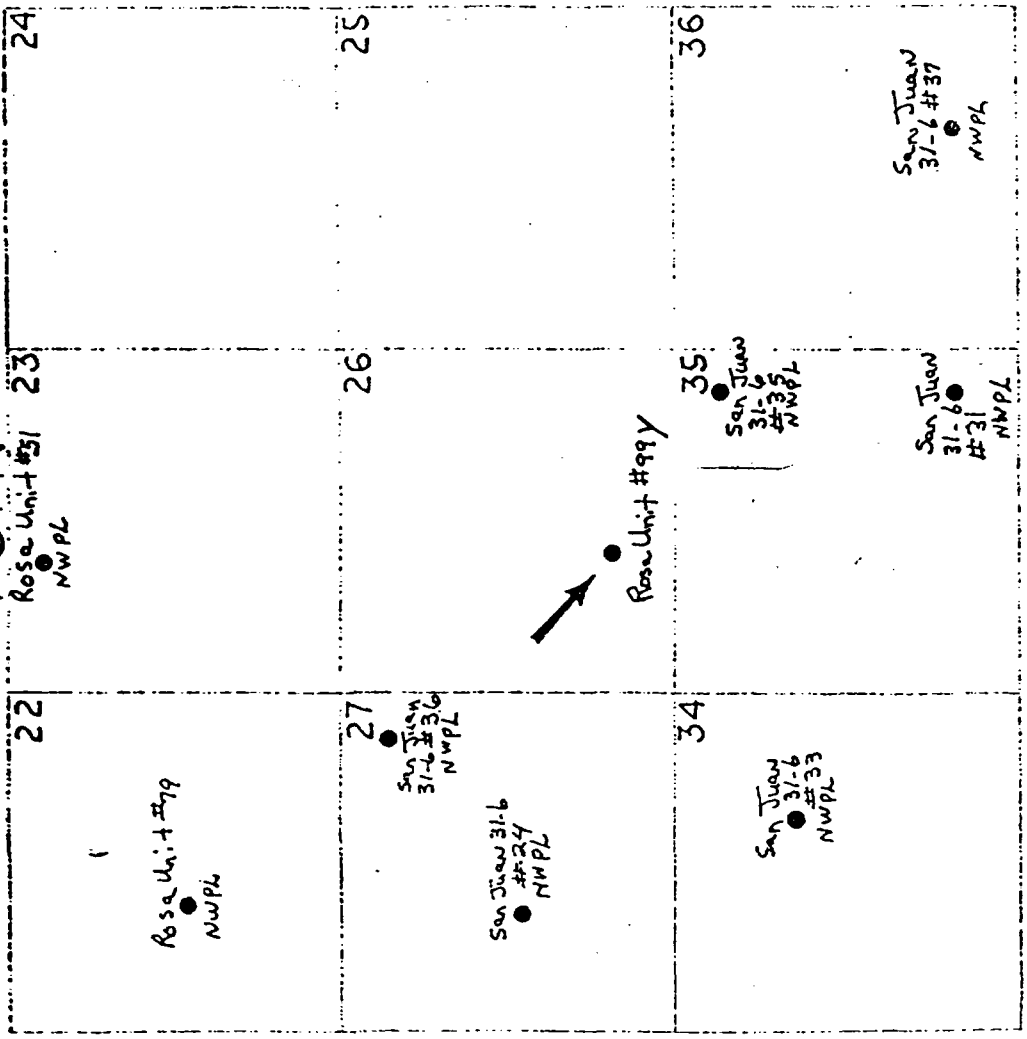
MEM/ct

cc: NMOCDC - Aztec, NM (2)

NWPL - Farmington, NM

AM7

T 31 N



R 6 W

● PROPOSED DRILLING LOCATION

● EXISTING WELL SITES

Case 8515

All distances must be from the outer boundaries of the Section.

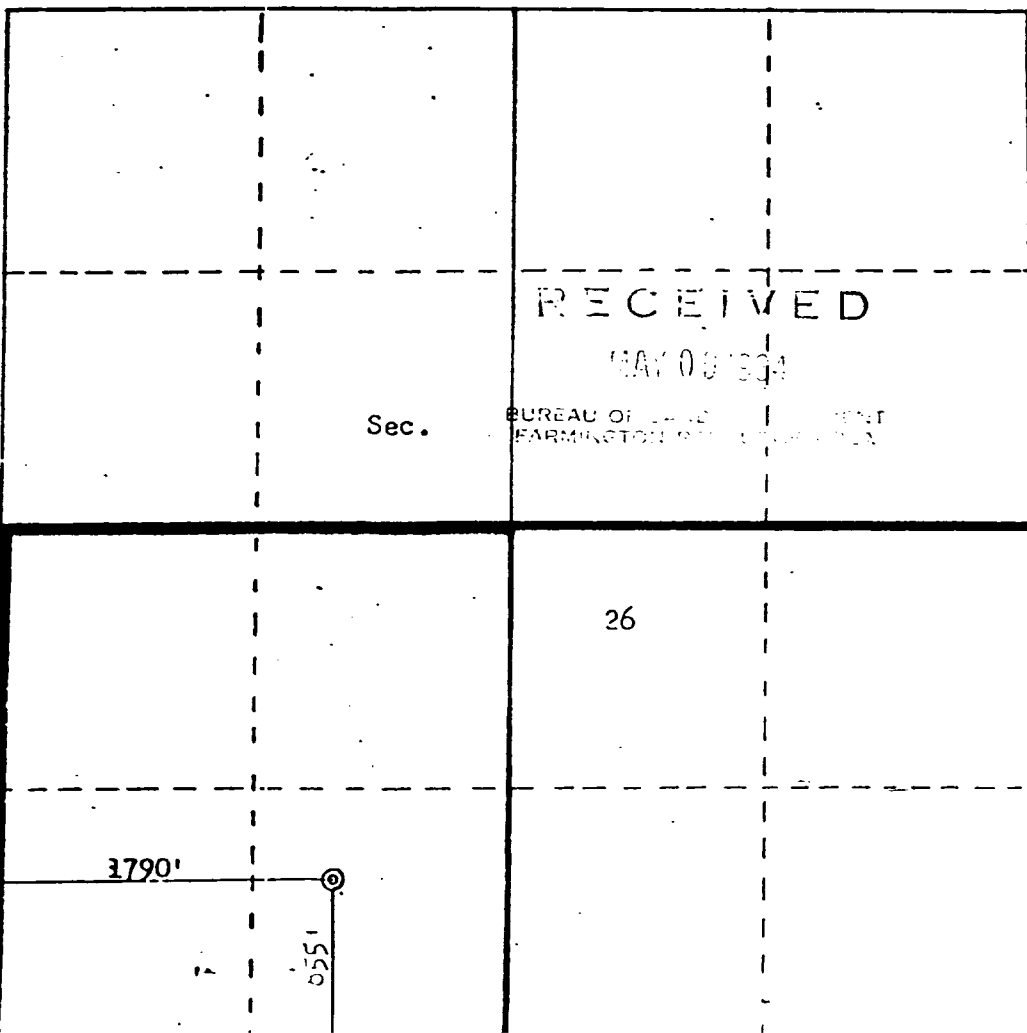
| | | | | | |
|---|---|---------------------------|---|-----------------------------|--|
| Operator AMOCO PRODUCTION COMPANY | | Lease ROSA UNIT | | | Well No. 99Y |
| Unit Letter N | Section 26 | Township 31N | Range 6W | County Rio Arriba | |
| Actual Footage Location of Well: 855 feet from the South line and 1790 feet from the West line | | | | | |
| Ground Level Elev. 6436 | Producing Formation Dakota/Gallup | | Pool Basin Dakota/Undes. Gallup | | Dedicated Acreage: 320/160 Acres |

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes" type of consolidation Unitized

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original Signed By
B. D. Shaw

Name B. D. Shaw
 Position Admin. Supervisor
 Company Amoco Production Company
 Date 5-7-84

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

Date Surveyed April 27, 1984
 Registered Professional Engineer and Land Surveyor

Fred S. Kerr Jr.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP EN PLUG BACK DIFF. RESRV. Other _____

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 855' FSL x 1790' FWL
At top prod. interval reported below Same
At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
SF-078771

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME
Rosa Unit

8. FARM OR LEASE NAME _____

9. WELL NO.
99Y

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA
SE/SW Sec. 26, T31N, R6W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

15. DATE SPUDDED 6/21/84 16. DATE T.D. REACHED 7/6/84 17. DATE COMPL. (Ready to prod.) 10/1/84 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6449' KB 19. ELEV. CASINGHEAD 6436' GR

20. TOTAL DEPTH, MD & TVD 8141' 21. PLUG, BACK T.D., MD & TVD 8096' 22. IF MULTIPLE COMPL., HOW MANY* 2 23. INTERVALS DRILLED BY → O-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7896'-8062' Dakota 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SP-GR-CNL-FDC-GR 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|--|---------------|
| 13-3/8" | 48#, H-40 | 396' | 17-1/2" | 600 c.f. Class B, 2% CaCl ₂ | |
| 4-1/2" | 11.6#, N-80 | 8139' | 7-7/8" | Stage 1: 616 c.f. Pozzolanic 50:50 poz & tailed in w/118 c.f. Class B Neat (Cont. on back) | |

| 29. LINER RECORD | | | | | 30. TUBING RECORD | | |
|------------------|----------|-------------|---------------|-------------|-------------------|----------------|---------------------------|
| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
| | | | | | 2-3/8" | 8065' | 7340' (sliding sleeve) |

| 31. PERFORATION RECORD (Interval, size and number) | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. | | | | | | |
|---|--|---------------------|----------------------------------|-------------|--|--|----------------|
| 7916'-7896', 7972'-7940', 7998'-7980', 8022'-8013', 8062'-8032', 2 jspf, .61", total of 218 holes (corrected # of holes-sundry dated 10/18/84 was incorrect). | <table border="1"> <thead> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>7896'-8062'</td> <td>150,864 gal. 50# delayed (corrected interval crosslinked gel & 212,562# sundry of 10/18/84 20-40 sand.</td> </tr> <tr> <td></td> <td>was incorrect)</td> </tr> </tbody> </table> | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED | 7896'-8062' | 150,864 gal. 50# delayed (corrected interval crosslinked gel & 212,562# sundry of 10/18/84 20-40 sand. | | was incorrect) |
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| 7896'-8062' | 150,864 gal. 50# delayed (corrected interval crosslinked gel & 212,562# sundry of 10/18/84 20-40 sand. | | | | | | |
| | was incorrect) | | | | | | |

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | WELL STATUS (Producing or shut-in) | | | | | |
|-----------------------|--|------------------------------------|-------------------------|----------|------------|-------------------------|---------------|
| 10/25/84 | Flowing | Shut-In | | | | | |
| DATE OF TEST | HOURS TESTED | CHOKER SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
| 10/26/84 | 3 | .75" | → | | 421 | | |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) | |
| 272 psig | 272 psig | → | | 3365 | | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold TEST WITNESSED BY J. Barnett

35. LIST OF ATTACHMENTS None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
Original Signed By _____ TITLE Administrative Supervisor DATE 11/5/84
SIGNED _____ TITLE _____ DATE _____

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
|-----------------|------|--------|-----------------------------|------|-------------|------------------|
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2473 | | | | | |
| Kirtland SN. | 2577 | | | | | |
| Farmington S.S. | 2634 | | | | | |
| Fruitland | 2906 | | | | | |
| Pic. Cliffs | 3260 | | | | | |
| Lewis Sn. | 3614 | | | | | |
| Cliffhouse | 5081 | | | | | |
| Menefee | 5489 | | | | | |
| Pt. Lookout | 5700 | | | | | |
| Gallup | 6542 | | | | | |
| Greenhorn | 7718 | | | | | |
| Granerus Sn. | 7774 | | | | | |
| Gran Dakota | 7895 | | | | | |
| Main Dakota | 7938 | | | | | |

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*

(See other Instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

LSP

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

| | | | |
|--|--|--|--|
| 1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____ | | 5. LEASE DESIGNATION AND SERIAL NO. SF-078771 | |
| b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____ | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____ | |
| 2. NAME OF OPERATOR Amoco Production Company | | 7. UNIT AGREEMENT NAME Rosa Unit | |
| 3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401 | | 8. FARM OR LEASE NAME _____ | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 855' PSL x 1790' FWL At top prod. interval reported below Same At total depth Same: | | 9. WELL NO. 99Y | |
| 14. PERMIT NO. _____ DATE ISSUED _____ | | 10. FIELD AND POOL, OR WILDCAT Undesignated Gallup | |
| 15. DATE SPUDDED 6/21/84 | | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SE/SW Sec. 26, T31N, R6W | |
| 16. DATE T.D. REACHED 7/6/84 | | 12. COUNTY OR PARISH Rio Arriba | |
| 17. DATE COMPL. (Ready to prod.) 10/1/84 | | 13. STATE NM | |
| 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6449' KB | | 19. ELEV. CASINGHEAD 6436' GR | |
| 20. TOTAL DEPTH, MD & TVD 8141' | | 23. INTERVALS DRILLED BY 0-TD | |
| 21. PLUG, BACK T.D., MD & TVD 8096' | | 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6887'-727C' Gallup | |
| 22. IF MULTIPLE COMPL., HOW MANY* 2 | | 25. WAS DIRECTIONAL SURVEY MADE Yes | |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SP-GR-CNL-FDC-GR | | 27. WAS WELL CORED No | |

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---------------------|-----------------|----------------|-----------|--|---------------|
| 13-3/8" | 48#, H-40 | 396' | 17-1/2" | 600 c.f. Class B 2% CaCl ₂ | |
| 4-1/2" | 11.6#, N-80 | 8139' | 7-7/8" | Stage 1: 616 c.f. Pozzolanic 50:50 poz & tailed in w/118 c.f. Class B Neat | |
| (continued on back) | | | | | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|------|----------|-------------|---------------|-------------|
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------------------|----------------|-----------------|
| 2-3/8" | 8065' | 7340' |
| (sliding sleeve) | | |

31. PERFORATION RECORD (Interval, size and number)

7069'-6887', 1 jspf, .59", 7166'-7145', 7230'-7195', 7270'-7246', 2 jspf, .59"; squeeze perfs -3880', 4 jspf, .41", total of 186 holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|---|
| 6887'-7270' | 175,140 gal gelled water & 150,000# 20-40 sand. |
| at 3880' | Squeeze - 382 c.f. Class B |

33.* PRODUCTION

| | | |
|--|--|--|
| DATE FIRST PRODUCTION 10/28/84 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing | WELL STATUS (Producing or shut-in) Shut-In |
| DATE OF TEST 10/29/84 | HOURS TESTED 3 | CHOKE SIZE .75" |
| PROD'N. FOR TEST PERIOD → | OIL—BBL. → | GAS—MCF. 121 |
| WATER—BBL. → | GAS—MCF. 969 | WATER—BBL. → |
| FLOW. TUBING PRESS. 72 psig | CASING PRESSURE 456 psig | CALCULATED 24-HOUR RATE → |
| OIL GRAVITY-API (CORR.) | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **To be sold**

TEST WITNESSED BY **J. Barnett**

35. LIST OF ATTACHMENTS **None**

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Original Signed By

SIGNED **B. D. Shaw** TITLE **Administrative Supervisor** DATE **11/5/84**

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries): | | 38. GEOLOGIC MARKERS | | | | | |
|---|------|----------------------|-----------------------------|------|-------------|-----|------------------|
| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | MEAS. DEPTH | TOP | TRUE VERT. DEPTH |
| Ojo Alamo | 2473 | | | | | | |
| Kirtland Sn. | 2577 | | | | | | |
| Farmington S.S. | 2634 | | | | | | |
| Fruitland | 2906 | | | | | | |
| Pic. Cliffs | 3260 | | | | | | |
| Lewis Sn. | 3614 | | | | | | |
| Cliffhouse | 5081 | | | | | | |
| Menefee | 5489 | | | | | | |
| Pt. Lookout | 5700 | | | | | | |
| Gallup | 6542 | | | | | | |
| Green Horn | 7718 | | | | | | |
| Graneros Sn. | 7774 | | | | | | |
| Gran Dakota | 7895 | | | | | | |
| Main Dakota | 7938 | | | | | | |

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company Amoco Production Co. Lease Rosa Unit Well 99-Y Gallup
County Rio Arriba State New Mexico Date 11-2-84
Shut-In 7 Days Zero Point G.L. Tbg. Pressure 1780
Casing Pressure 2540 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 249^oF Fluid Level 4820'

| <u>DEPTH</u> | <u>PSIG</u> | <u>GRADIENT</u> |
|--------------|-------------|-----------------|
| 0 | 1761 | ---- |
| 1000 | 1809 | .048 |
| 2000 | 1858 | .049 |
| 3000 | 1897 | .039 |
| 4000 | 1946 | .049 |
| 5000 | 2057 | .111 |
| 6000 | 2496 | .439 |
| 7000 | 2928 | .432 |
| 7200 | 3012 | .420 |
| 7300 | 3058 | .460 |

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO. Lease ROSA UNIT Well 99y DAK
County RIO ARRIBA State NEW MEXICO Date 10-26-84
Shut-In 7 DAYS Zero Point G.L. Tbg. Pressure 2860
Casing Pressure 2555 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 262^oF Fluid Level 7950'

| <u>DEPTH</u> | <u>PSIG</u> | <u>GRADIENT</u> |
|--------------|-------------|-----------------|
| 0 | 2846 | ---- |
| 1000 | 2930 | .084 |
| 2000 | 3003 | .073 |
| 3000 | 3073 | .070 |
| 4000 | 3143 | .070 |
| 5000 | 3210 | .067 |
| 6000 | 3274 | .064 |
| 7000 | 3337 | .063 |
| 7900 | 3389 | .058 |
| 8000 | 3413 | .240 |

Recommended Allocation Formula

Amoco Production Company recommends the following percentages to be used to allocate hydrocarbons to the Gallup and Dakota horizons in the Rosa Unit 99Y.

| | <u>Gas</u> |
|--------|------------|
| Gallup | 22% |
| Dakota | 78% |

Note: The gas allocation percentages were calculated using initial potential test results.

MEM

December 18, 1984

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87499

File: DDL-1275-400.1

Dear Sirs:

Commingling Application
Rosa Unit 99Y
Section N26, T31N, R6W
Rio Arriba County, New Mexico

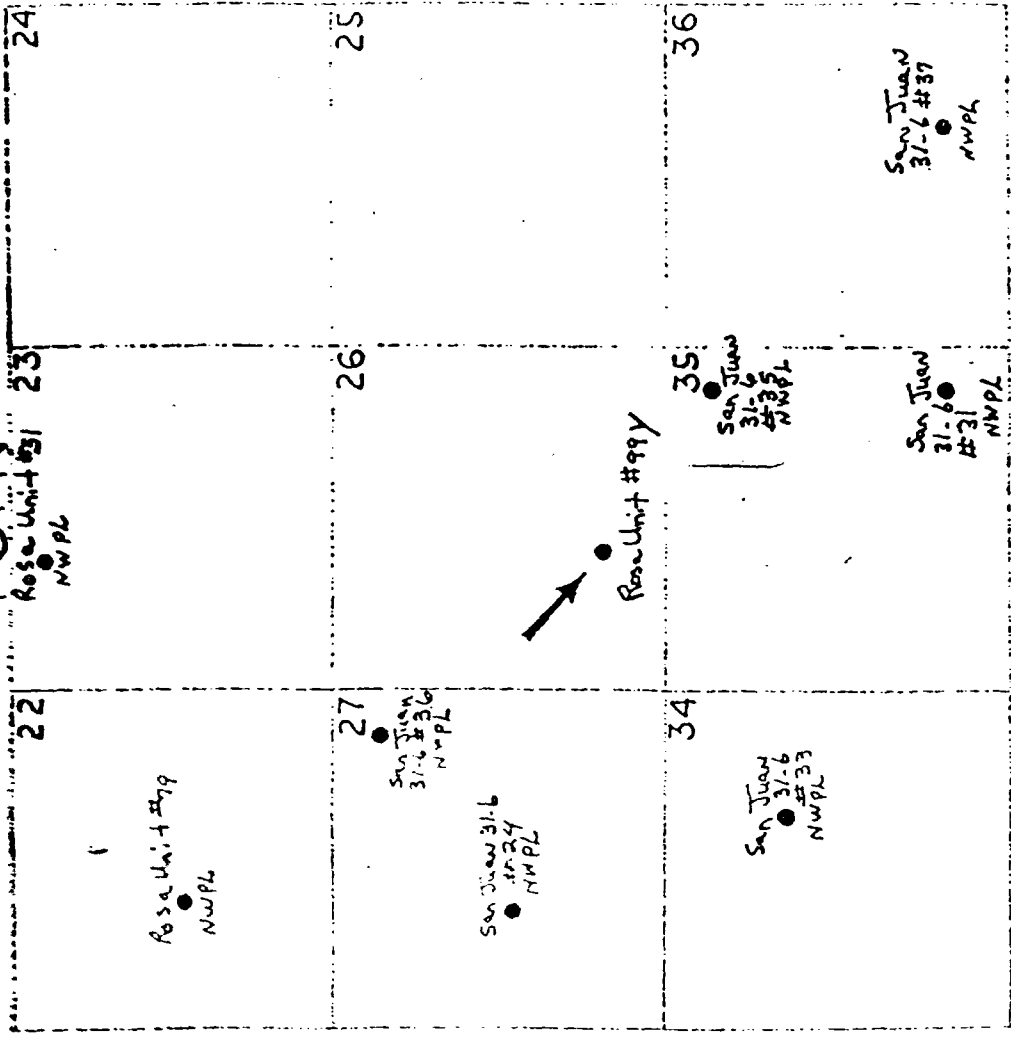
Amoco Production Company has applied for approval to commingle the Gallup and Dakota horizons in the subject well. If you have any objections, you have 20 days to notify the New Mexico Oil Conservation Division. If you do not respond within 20 days, your approval will be assumed.

Yours very truly,
Original Signed
W. J. Holcomb
by DDL

MEM/ct.

AM7

T 31 N



R 6 W

➔ ● PROPOSED DRILLING LOCATION

● EXISTING WELL SITES

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

Form C-107
Revised 10

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section.

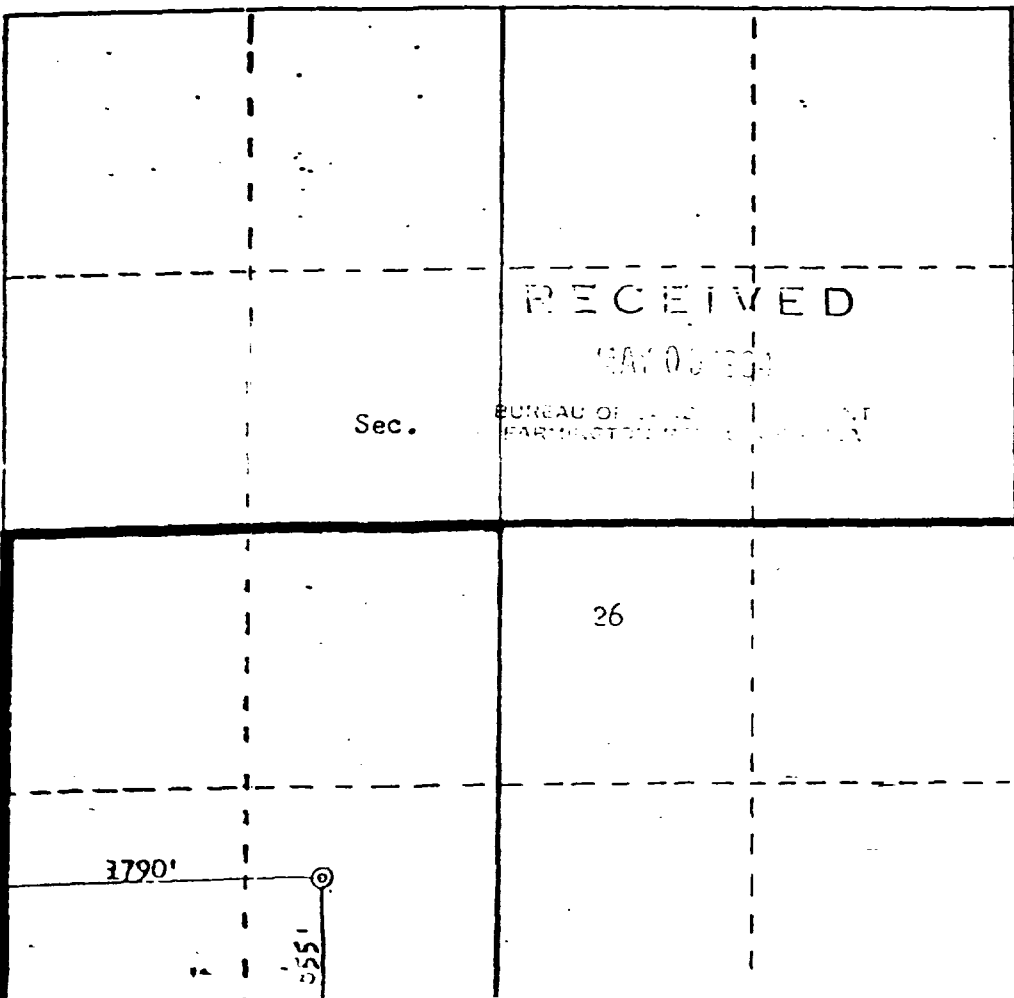
| | | | | | |
|---|---|------------------------|---|-----------------------------|--|
| Operator AMOCO PRODUCTION COMPANY | | | Lease ROSA UNIT | | Well No. 99Y |
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| Actual Footage Location of Well: 855 feet from the South line and 1790 feet from the West line | | | | | |
| Ground Level Elev. 6436 | Producing Formation Dakota/Gallup | | Pool Basin Dakota/Undes. Gallup | | Dedicated Acreage: 320/160 Acres |

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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Yes No If answer is "yes," type of consolidation Unitized

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original Signed By:
B. D. Shaw

Name B. D. Shaw
Position Admin. Supervisor
Company Amoco Production Comp.
Date 5-7-84

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

Date Surveyed April 27, 1984
Registered Professional Engineer and Land Surveyor
[Signature]

RECEIVED

BUREAU OF ENERGY AND MINERALS DEPARTMENT

Sec.

26

1790'

855'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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| 29. LINER RECORD | | | | 30. TUBING RECORD | | | |
|------------------|----------|-------------|---------------|-------------------|--------|----------------|---------------------------|
| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
| | | | | | 2-3/8" | 8065' | 7340' (sliding sleeve) |

| 31. PERFORATION RECORD (Interval, size and number) | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |
|---|--|
| 7916'-7896', 7972'-7940', 7998'-7980', 8022'-8013', 8062'-8032', 2 jspf, .61", total of 218 holes (corrected # of holes-sundry dated 10/18/84 was incorrect). | DEPTH INTERVAL (MD) 7896'-8062' AMOUNT AND KIND OF MATERIAL USED 150,864 gal. 50# delayed (corrected interval crosslinked gel & 212,562# sundry of 10/18/84 20-40 sand. was incorrect) |

33. PRODUCTION
DATE FIRST PRODUCTION 10/25/84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-In

| DATE OF TEST | HOLES TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---------------------|-----------------|-------------------------|-------------------------|----------|------------|-------------------------|---------------|
| 10/26/84 | 3 | .75" | → | | 421 | | |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) | |
| 272 psig | 272 psig | → | | 3365 | | | |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold TEST WITNESSED BY J. Barnett

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
Original Signed By SIGNED R. J. Shaw TITLE Administrative Supervisor DATE 11/5/84

* (See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tester, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
|-----------------|------|--------|-----------------------------|------|-------------|------------------|
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2473 | | | | | |
| Kirtland Sn. | 2577 | | | | | |
| Farmington S.S. | 2634 | | | | | |
| Fruitland | 2906 | | | | | |
| Pic. Cliffs | 3260 | | | | | |
| Lewis Sn. | 3614 | | | | | |
| Cliffhouse | 5081 | | | | | |
| Wenefee | 5489 | | | | | |
| Wt. Lookout | 5700 | | | | | |
| Ballup | 6542 | | | | | |
| Greenhorn | 7718 | | | | | |
| Graneros Sn. | 7774 | | | | | |
| Gran Dakota | 7895 | | | | | |
| Gran Dakota | 7938 | | | | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP EN PLUG BACK DIFF. RESER. Other _____

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 855' FSL x 1790' FWL
At top prod. interval reported below Same
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
SF-078771

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME
Rosa Unit

8. FARM OR LEASE NAME _____

9. WELL NO.
99Y

10. FIELD AND POOL, OR WILDCAT
Undesignated Gallup

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
SE/SW Sec. 26, T31N, R6W

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNED 6/21/84 16. DATE T.D. REACHED 7/6/84 17. DATE COMPL. (Ready to prod.) 10/1/84 18. ELEVATIONS (OF, RKB, RT, CR, ETC.)* 6449' KB 19. ELEV. CASINGHEAD 6436' GR

20. TOTAL DEPTH, MD & TVD 8141' 21. PLUG. BACK T.D., MD & TVD 8096' 22. IF MULTIPLE COMPL., HOW MANY? 2 23. INTERVALS DRILLED BY ROTARY TOOLS 0-TD CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6887'-7270' Gallup

25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SP-GF-CNL-FDC-GR 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|--|---------------|
| 13-3/8" | 48#, H-40 | 396' | 17-1/2" | 600 c.f. Class B 2% CaCl ₂ | |
| 4-1/2" | 11.6#, N-80 | 8139' | 7-7/8" | Stage 1: 616 c.f. Pozzolanic 50:50 poz & tailed in w/118 c.f. Class B Neat | |
| | | | | (continued on back) | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) |
|------|----------|-------------|---------------|-------------|
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------------|-----------------|
| 2-3/8" | 8065' | 7340' |

(sliding sleeve)

31. STIMULATION RECORD (Interval, size and number)

7069'-6887', 1 jspf, .59", 7166'-7145', 7230'-7195', 7270'-7246', 2 jspf, .59"; squeeze perms -3880', 4 jspf, .41", total of 186 holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|---|
| 6887'-7270' | 175,140 gal gelled water & 150,000# 20-40 sand. |
| at 3880' | Squeeze - 382 c.f. Class B |

33. PRODUCTION

DATE FIRST PRODUCTION 10/28/84 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-In

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|--------------|--------------|------------|-------------------------|----------|----------|------------|---------------|
| 10/29/84 | 3- | .75" | → | | 121 | | |

| FLOW, TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---------------------|-----------------|-------------------------|----------|----------|------------|-------------------------|
| 72 psig | 456 psig | → | | 969 | | |

34. DESCRIPTION OF GAS (Sale, used for fuel, vented, etc.) To be sold TEST WITNESSED BY J. Barnett

35. LIST OF ATTACHMENTS
None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Original Signed By
SIGNED B. D. Shaw TITLE Administrative Supervisor DATE 11/5/84

*(See Instructions and Spaces for Additional Data on Reverse Side)

37: SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stems; (data, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries).

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | GEOLOGIC MARKERS | | |
|-----------------|------|--------|-----------------------------|------------------|-------------|------------------|
| | | | | NAME | MEAS. DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2473 | | | | | |
| Kirtland Sn. | 2577 | | | | | |
| Farmington S.S. | 2634 | | | | | |
| Fruitland | 2906 | | | | | |
| Pic. Cliffs | 3260 | | | | | |
| Lewis Sn. | 3614 | | | | | |
| Cliffhouse | 5081 | | | | | |
| Menefee | 5489 | | | | | |
| Pt. Lookout | 5700 | | | | | |
| Gallup | 6542 | | | | | |
| Green Horn | 7718 | | | | | |
| Graneros Sn. | 7774 | | | | | |
| Gran Dakota | 7895 | | | | | |
| Main Dakota | 7938 | | | | | |

38.

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company Amoco Production Co. Lease Rosa Unit Well 99-Y Gallup
County Rio Arriba State New Mexico Date 11-2-84
Shut-in 7 Days Zero Point G.L. Tbg. Pressure 1780
Casing Pressure 2540 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 249^oF Fluid Level 4820'

| <u>DEPTH</u> | <u>PSIG</u> | <u>GRADIENT</u> |
|--------------|-------------|-----------------|
| 0 | 1761 | ---- |
| 1000 | 1809 | .048 |
| 2000 | 1858 | .049 |
| 3000 | 1897 | .039 |
| 4000 | 1946 | .049 |
| 5000 | 2057 | .111 |
| 6000 | 2496 | .439 |
| 7000 | 2928 | .432 |
| 7200 | 3012 | .420 |
| 7300 | 3058 | .460 |

B & R SERVICE, INC.

P. O. Box 1048
Farmington, New Mexico 87499
(505) 325-2393

Company AMOCO PRODUCTION CO. Lease ROSA UNIT Well 99y DAK
County RIO ARRIBA State NEW MEXICO Date 10-26-84
Shut-in 7 DAYS Zero Point G.L. Tbg. Pressure 2860
Casing Pressure 2555 Tbg. Depth _____ Casing Perf. _____
Max. Temp. 262°F Fluid Level 7950'

| <u>DEPTH</u> | <u>PSIG</u> | <u>GRADIENT</u> |
|--------------|-------------|-----------------|
| 0 | 2846 | ----- |
| 1000 | 2930 | .084 |
| 2000 | 3003 | .073 |
| 3000 | 3073 | .070 |
| 4000 | 3143 | .070 |
| 5000 | 3210 | .067 |
| 6000 | 3274 | .064 |
| 7000 | 3337 | .063 |
| 7900 | 3389 | .058 |
| 8000 | 3413 | .240 |

Recommended Allocation Formula

Amoco Production Company recommends the following percentages to be used to allocate hydrocarbons to the Gallup and Dakota horizons in the Rosa Unit 99Y.

| | <u>Gas</u> |
|--------|------------|
| Gallup | 22% |
| Dakota | 78% |

Note: The gas allocation percentages were calculated using initial potential test results.

MEM

December 18, 1984

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87499

File: DDL-1275-400.1

Dear Sirs:

Commingling Application
Rosa Unit 99Y
Section N26, T31N, R6W
Rio Arriba County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota horizons in the subject well. If you have any objections, you have 20 days to notify the New Mexico Oil Conservation Division. If you do not respond within 20 days, your approval will be assumed.

Yours very truly,

Original Signed
W. J. Holcomb
by DDL

MEM/ct

A:17